



TR-173

TECHNICAL REPORT

BOTTOM AND SUBBOTTOM INVESTIGATION OF PENOBSCOT BAY, MAINE, 1959

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A B S T R A C T

During the summer and early fall of 1959, bottom sediment samples were collected and Sonoprobe records were obtained as a part of an inshore survey in Penobscot Bay, Maine.

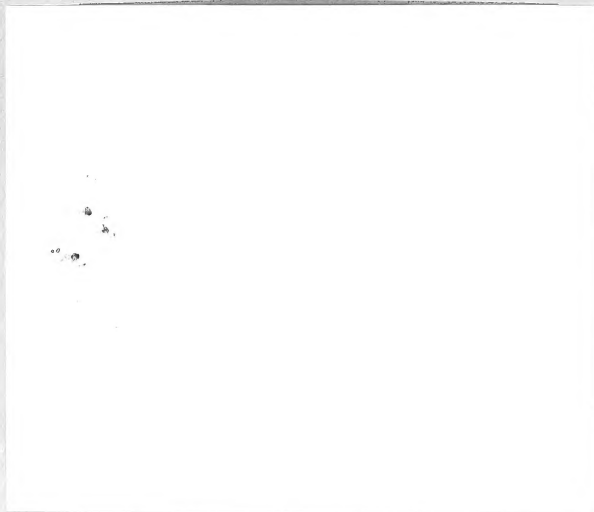
The Sonoprobe is described, its operation is explained, and its capabilities are discussed.

In the investigation of the bottom and subbottom of Penobscot Bay, Maine, the geographic setting and bathymetry of the area are described, and the geologic history of the region and the previous work done in the area are reviewed.

Survey observations are discussed and bottom sediment and Sonoprobe data are presented.

Sediment data are compared and correlated with Sonoprobe records that were obtained over the bottom sample station locations.

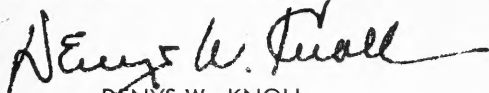
Grain-size analyses were made on 168 bottom samples and approximately 70 miles of Sonoprobe runs were recorded.



FOREWORD

This report presents the results of the correlation and comparison of the bottom and subbottom sediment samples and the high resolution subbottom profiler records taken during 1959 in Penobscot Bay, Maine.

The results of the correlation and comparison of the bay sediments with the high resolution subbottom profiler records have aided considerably in the understanding and interpretation of the complex sequence of events that may have occurred over the recent past in this typical estuary of the glaciated northeastern coast of North America.



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I. INTRODUCTION

As part of the inshore survey of Penobscot Bay in the summer and early fall of 1959, many grab samples, cores, and Sonoprobe records of excellent quality were obtained. This report attempts to utilize the bottom and subbottom data, oceanographic information, and historical data to arrive at an overall picture of past and present sedimentation in Penobscot Bay. Particular emphasis is placed upon the use and evaluation of the Sonoprobe as a tool for obtaining geological data.

II. THE SONOPROBE

A. General

The Sonoprobe, manufactured by Scientific Service Laboratories, is an instrument for measuring the depth of water and the depth and thickness of sedimentary beds beneath the sea bottom by acoustic means. The parameter measured is the time lapse between the outgoing signal and the reflected signal. Signals are pulsed at a rate of 12/sec. The reflections are recorded on chart paper which is drawn through a recorder. As the survey ship passes over the bottom, a continuous trace of bottom and subbottom reflections is recorded.

B. Instrument Operation

The Sonoprobe consists of two hull mounted transducers; the transmitting transducer and the hydrophone, and four deck units; the Pulser, the Control-Display Unit, the Recorder, and the Precision 60-cycle Power Unit (Plate I).

The pulser drives the transmitter at frequencies of 3, 4.5, or 6 kc. The pulse duration is 0.3 millisecond. At the instant of discharge, voltages up to 1000 volts and currents to 1000 amperes are attained.

These high intensity pulses of acoustic energy are transmitted into the water from the magnetostrictive transducer mounted in the hull of the survey ship. The energy is peaked in the downward direction and forms a cone with approximately a 30° angle. Part of the signal is reflected at the water bottom, and part penetrates the bottom material where it is absorbed or reflected by acoustic discontinuities in the subbottom sediments. The hull mounted hydrophone receives the energy of the reflected signals and converts it into electrical energy.

Signals from the hydrophone are applied to the Control-Display Unit where they are filtered, amplified, displayed, and passed on to the recorder. The filters are variable and serve to eliminate ship's noise and other extraneous signals.

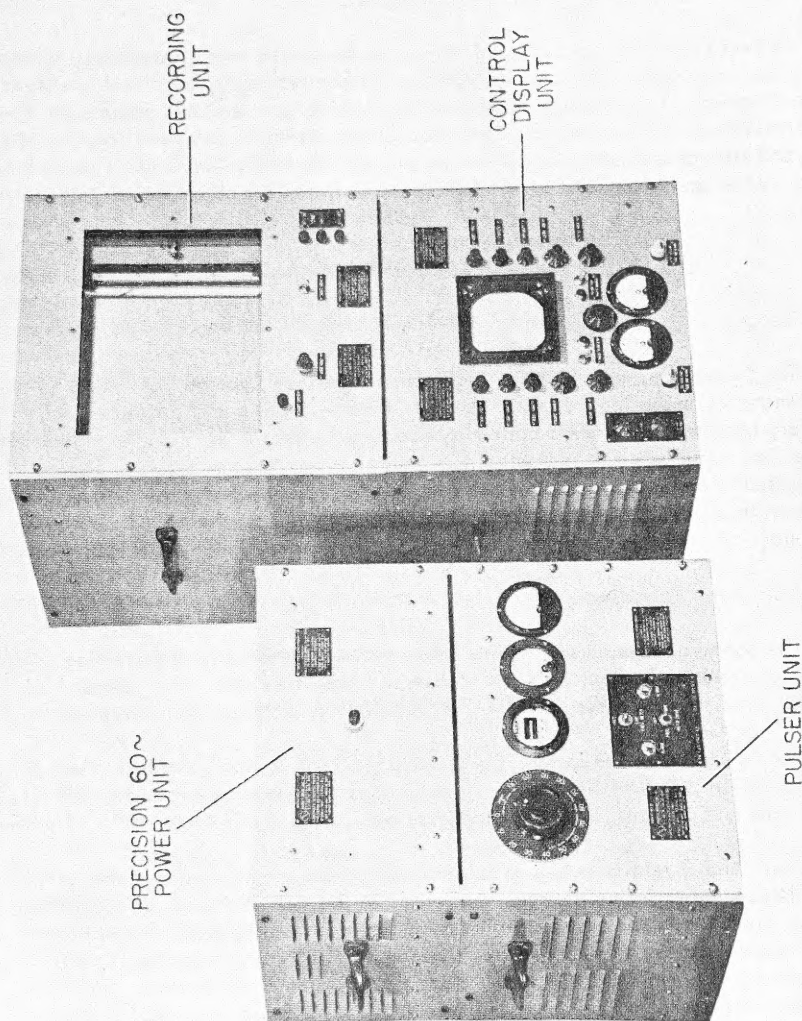


PLATE I. SONOPROBE DECK UNITS

The signal from the filter is applied to the logarithmic type amplifier. Here, low level signals receive a higher gain than high level signals so that weak reflections may be recorded along with strong signals. The output from the amplifier passes to the level control and printing circuits where a means of selecting the smallest signal to be displayed and/or recorded is provided.

The Recording Unit starts each cycle of operation and makes a record of signals received. The recording paper passes between a flat blade and a revolving drum that is wound with a single helix of wire. The pulse of acoustic energy is transmitted at the instant when a point connecting the blade and the wire is at the top of the paper; the zero depth position. The drum rotates at a rate so that each inch from the top of the paper represents $8 \frac{1}{3}$ milliseconds of travel time. On the assumption that the velocity of propagation of the signal through seawater is 4800 ft/sec, each inch down the recording paper equals 20 feet of depth to a reflecting horizon. When a signal is detected by the hydrophone a spark passes between the blade and the wire on the rotating drum, at the point of contact, and a mark is made on the electrosensitive paper. The paper is 10 inches wide and lined in increments of $\frac{1}{2}$ inch, each representing 10 feet of depth.

The Precision Power Unit provides the regulated power necessary to drive the recording drum at the precise speed needed for synchronization of the system.

C. Instrument Capabilities and Recordings

Bottom penetration of the acoustic signal under favorable conditions of water depth and bottom type is 100 feet to perhaps a maximum of 200 feet. Soft mud bottoms permit the greatest signal penetration whereas clean sands and gravels reflect nearly all of the signal. The use of the instrument is believed to be limited to water depths of less than 700 feet. Although the instrument is limited in penetration capability, its usefulness is demonstrated by its high resolution of bottom and subbottom features. This high resolution is not equaled by instruments with greater penetration capability.

The resolution capabilities of subbottom profiling instruments are dependent upon the frequency and pulse duration of the acoustic signal. It is possible to detect subbottom discontinuities as thin as $\frac{1}{2}$ wave length of the acoustic signal. For the Sonoprobe, the wave lengths in water are 1.6 and 0.8 feet for the 3 kc. and the 6 kc. signals, respectively. The short pulse durations permit only a single cycle of a 3.8 kc. wave to be transmitted at each pulse. In practice the resolving power of the Sonoprobe is 1 to 3 feet (McClure, et.al., 1958, Moore, 1960).

The calibration velocity of the instrument is 4800 ft/sec; therefore, the depth of the bottom and the layers beneath the bottom will be recorded at their true

depths if the sound velocities of the media equal the calibration velocity. This value is a reasonable average velocity for seawater, and deviation from this figure will result in only slight depth errors in shallow water. In unconsolidated and porous sediments the sound velocity is different than the instrument calibration velocity, but here again the velocity differences are usually not great, and the thickness of sediment penetrated not large, so that errors in sediment thickness are not excessive for most applications.

Recordings may be made at two scale settings: either normal or one-half scale. Changes in the scale settings do not change the vertical scale of 1/2 inch per 10 feet, only the relative position of the zero line is affected. Using the normal setting, zero depth is at the top of the paper. At the one-half scale setting, the zero position is located at the 100-foot line of the normal scale, or the center of the recording paper. When the pulse is transmitted a black line is recorded directly beneath the zero position.

Scale changes are made during a run in an attempt to keep the bottom and subbottom reflections in proper sequence on the recording. (In this report the reproductions of the Sonoprobe records have been adjusted so that the bottom trace is continuous regardless of scale changes.) In general, the water bottom, subbottom reflections, and bedrock can be recorded in the 200-foot span of the recorder. Multiples may, however, overlap the trace of actual bottom and subbottom features. Multiples occur when the original reflected signal is again partly reflected at the water-air interface or other reflecting surfaces above the horizon in question. This energy is then directed downward to start another cycle and to be eventually recorded. In most cases the multiples are easily distinguished (section V, C below), but they may become a problem in shallow water where the bottom and subbottom features are horizontal.

In operation, various frequencies and filter settings are used to obtain the best penetration and subbottom definition. Many of the notations on the records refer to these changes. The effects of these changes are monitored on the display scope mounted on the Control-Display Unit. When the best penetration is displayed the printing controls are adjusted to obtain the desired subbottom record.

III. THE SURVEY AREA: PENOBSCOT BAY, MAINE

A. Geographic Setting

Penobscot Bay is an estuary located in the central portion of the Maine coast that opens into the Gulf of Maine at 69°W. The bay, extending northward from the coastline at 43°58' N. to the mouth of the Penobscot River, is about 28 miles long. Of the many islands in the bay, Long Island, North Haven Island, and

Vinalhaven Island are the largest. These islands divide the bay into East Penobscot Bay and West Penobscot Bay.

B. Bathymetry

The bathymetry of the bay and its approaches, shown in Figure 1, was taken from Coast and Geodetic Survey (C&GS) charts 310, 311, 313, and 322 and is plotted on a base taken from C&GS chart 1203. The bottom of the bay is very irregular with many isolated highs and depressions. South of the latitude of Rockland, the bay deepens rapidly to a maximum of about 540 feet and shoals to 250 feet 5 miles farther south. A possible continuation of this basin may be the channel curving to the southeast as suggested by the contours. The topography in the approaches to Penobscot Bay is also very irregular, but depths gradually increase toward the Gulf of Maine where the bottom topography is similarly very irregular (Murray, 1947).

C. Geologic Setting and Previous Work in the Area

The shores and islands of Penobscot Bay consist of argillaceous metasediments, limestone, quartzite, and intrusive and extrusive acid and basic igneous rocks, all of Early and Middle Paleozoic age (Bastin, 1908). These rocks usually are exposed along the shores of the bay and its approaches and are only thinly covered with glacial and postglacial deposits elsewhere in the region.

Relatively little is known of the glacial and postglacial history of Maine. Problems that have not as yet been resolved include: the southern limit of glaciation, the number of glaciations, the duration of glaciation, and the number and extent of sea level changes during late glacial and postglacial time.

It is believed that there were at least two major glacial advances over Maine during the Pleistocene. The glaciation apparently did not result in a drastic alteration of the original topography (Johnson, 1925). The soil and weathered bedrock were removed, but large scale ice erosional features are generally lacking.

The evidence for the two glacial advances rests primarily on two sequences of marine sediments, one preceding and one following esker formation. The sequence of deposits from the youngest to the oldest is as follows: (Leavitt and Perkins, 1935)

Marine sediment.

Drift, including eskers. Ice flow south.

Marine sediments. Sediments deformed as though by bergs.

Drift, including eskers. Ice flow southeast.

Flint (1953) suggests that the older drift is part of the Iowan-Tazewell Complex and that the younger drift represents the Cary substage of the Wisconsin glaciation. The

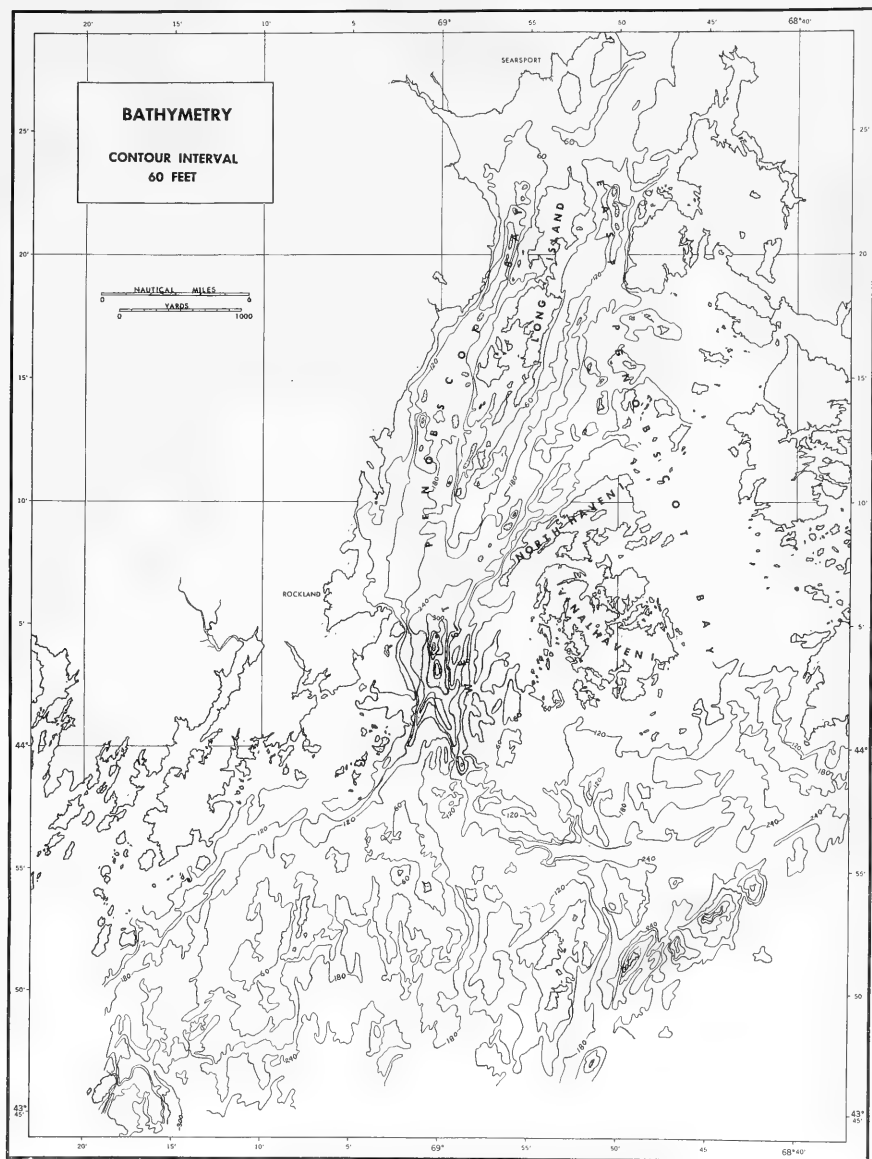


FIGURE 1. PENOBSCOT BAY BATHYMETRY

Cary drift border passes into the sea at Boston and probably lies in the Gulf of Maine. Pollen profiles from Aroostock County, in northern Maine, seem to indicate that the Cary Ice Sheet was the last to occupy Maine and that the Late Wisconsin Mankato Ice Sheet probably did not extend farther south than the northern part of the state (Deevey, 1951; Flint and Deevey, 1951). Its proximity is reflected by a return of a tundra type climate to northern Maine.

Following, or possibly concurrent with, the retreat of the last ice sheet from southern Maine, the sea advanced over the isostatically depressed coastal area. Leavitt and Perkins (1935) believe that the sea reached a maximum of 300 feet above present sea level at Searsport. Other evidence by Deevey (1951) and by Bloom (1959), working in southwestern Maine, indicates that this figure is of the right order of magnitude. Radiocarbon dating of marine shells at Waterville, Maine, gave a date of $11,800 \pm 240$ years B.P. for the time of maximum submergence (Bloom, 1959, p.80). This date is probably applicable to the Penobscot Bay region, and it closely corresponds to the Two Creeks Interval; the Cary-Mankato Interval.

Isostatic recovery of the depressed land areas following deglaciation resulted in a retreat of the sea. Bloom (1959, p.85), interpreting a pollen profile (Deevey, 1951) from Muddy Pond in Kennebec County, believes that emergence was in progress 7,000 to 8,000 years ago. Emergence may have continued until sea level was at least 35 feet below present level (Bloom, 1960). Bloom (1960) states that sea level in Maine has been at ± 10 feet for the past 6,000 years. Flint and Deevey (1951) cite a former emergence of 15 to 30 feet at the Boylston Street fishwrier site in Boston. Radiocarbon dates place this emergence at about 5,700 years B.P. and submergence about 3,850 years ago. The dates and extent of postglacial emergence in coastal Maine are still not known precisely. The coast of Maine is currently undergoing gradual submergence (Marmer, 1949).

The glacial and postglacial sediments in the Penobscot Bay area have been described by Bastin (1908) and Smith, Bastin, and Brown (1907). The till in the region is thin and irregular, reaching a maximum of 40 to 50 feet in valleys and depressions. Outwash sands and gravels are rare in the southern part of the area, but they become more abundant to the north. These deposits lie on fresh bedrock.

The transgression of the sea resulted in the deposition of the marine clays so prevalent in southern Maine. The clays are described by Bastin (1908) to be yellowish gray to blue gray, very fine grained, and free of pebbles and sand. The clays are commonly 15 to 35 feet thick, but 50- to 75-foot thicknesses are known from wells. The clays are found in river valleys as far as Bangor, 25 miles north of Searsport. According to Bastin (1908), the clays represent "old clam flats." This view is supported by Goldthwait (1949) inasmuch as the clays are found only in the lower portions of valleys and have a well defined topographic upper limit in any given area. These clays are

probably shallow water deposits similar to marsh or mudflat deposits that were laid down during the transgressive phase of the submergence.

Bloom (1959), working in southwestern Maine, applied the name Presumpscot Formation to the late glacial marine clays of southern Maine. In the southwestern part of the state, the clays are gray to blue-gray, thick to thin bedded, silty clays separated by thin laminae of silt or fine sand. True varves are not found, but rhythmic bedding is common. In some locations, boulders, apparently ice-rafted, are found imbedded in the clays. Bloom believes these clays to be "glacial rock flour." The clays are sandier than those found in the Penobscot Bay region.

IV. SURVEY OBSERVATIONS

A. Oceanographic Observations

During the survey period August to October 1959, observations of temperature, salinity, and currents were made in the bay and its approaches. The saline wedge was only weakly developed during this period, but a gradual headward movement of the saline bottom water and a net seaward flow of the fresher surface water were observed. In the southern part of the survey area, current observations showed an ebb and flood of the bottom water with the flood predominating. The maximum observed flood velocity of the bottom water was 0.7 knot off Rockland. The average was considerably less. Farther north there was a very weak flood, and in the northern extremity of the bay, bottom currents were below the threshold of the current meter.

Current observations in the upper layer of water showed a flood and an ebb at nearly all locations with the ebb predominating. The currents were weaker in the north but reached a maximum ebb of 1.0 knot off Rockland.

In other seasons of the year, during periods of greater river discharge, current speeds greater than those observed during the survey period can be expected. During periods of peak discharge for the Penobscot River, April and May, the river flow is many times greater than during August and September (U.S.G.S. Water Supply Paper, 1947).

The tidal range in the Bay is large. The mean range exceeds 9 feet in the south and 10 feet in the north.

During the survey period sea and swell conditions in the area were very moderate. During the winter months, however, sea states can become severe, especially, in the unprotected approaches to the bay. At these times, wave action probably extends to the bottom in a large portion of the approaches to the bay and in the southern portion of the bay proper.

B. Bottom Sampling

In Penobscot Bay and its approaches, 143 grab samples and 74 cores were taken. Station locations are shown in Figure 2. The grab samples were taken with an orange peel sampler. Most of the cores were obtained with a modified Kullenberg piston corer using a 12-foot core barrel. A few Phleger gravity cores were attempted where it was suspected that the sediment cover over bedrock was thin. In general, excellent undisturbed Kullenberg cores were obtained. Full penetration and a high percentage of recovery was the rule. Stratification in the cores was nearly always horizontal, and only a few instances of sucked, pulled-apart, or otherwise disturbed cores were found.

All samples were analyzed by the U. S. Naval Oceanographic Office Geological Laboratory for grain-size distribution using the standard wet-sieve and pipette methods. The cores were sub-sampled where color or grain-size changes were noted or suspected. Samples were taken above and below such changes. In homogeneous cores the sampling interval was usually about 24 inches. It should be noted that at the time the samples were analyzed the cutoff from silt to clay was at 9ϕ (0.002 mm) in accordance with engineering procedure instead of 8ϕ (0.004 mm) which is customary with geologists. The result is that many samples on the analysis sheets (see the Appendix for the analysis sheets) are classed as clayey silts rather than silty clays as they would have been if geological usage had been followed. The usage followed in the text, diagrams, and charts, makes the silt-clay separation at 8ϕ . The 8ϕ values were obtained from cumulative curves not presented in this report. Grain-size determinations were not carried beyond 9ϕ ; consequently the third quartile for very fine sediments was not reached and statistical measures could not be obtained.

C. Sonoprobe Runs

The Sonoprobe runs were made with the instrument mounted aboard the USS LITTLEHALES (AGSC-15). Runs usually were made at speeds of 3 to 5 knots and at various chart speeds. For this reason, the horizontal scale of the recordings varies from run to run. The vertical exaggeration of the records ranges from 15 to 60 times. For convenience, horizontal lines representing 500 yards have been drawn on the records reproduced in this report.

Eleven Sonoprobe runs were made in the survey area for a total of 70 miles of tracks. In addition, short runs were made at most of the coring sites. Deep penetration and excellent definition of subbottom features were achieved on most of the runs.

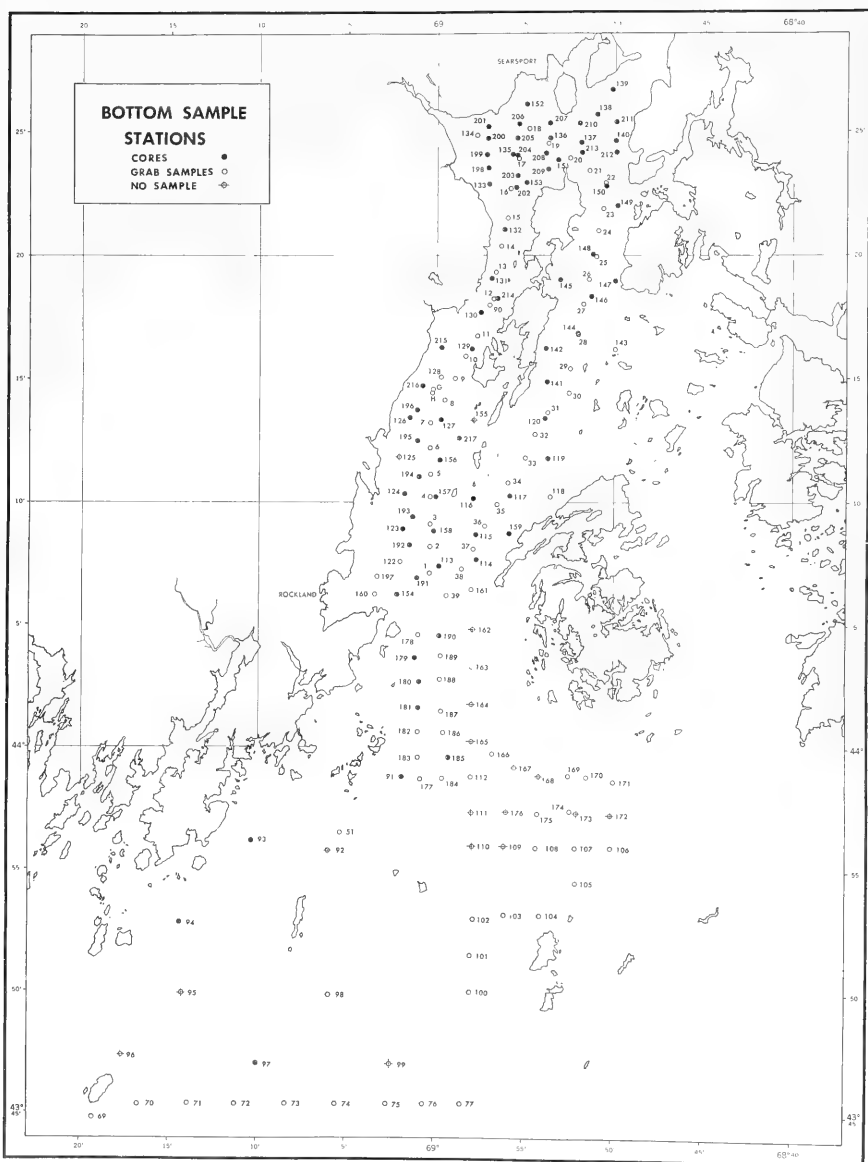


FIGURE 2. PENOBSCOT BAY BOTTOM SAMPLE STATIONS

The Sonoprobe tracks for runs I through V and VII through IX are presented in Figure 3, and the fix locations are given in Table I. In the approaches to the bay, the Sonoprobe track locations and many of the grab sample positions are classified and are not given in this report. The grab sample data from the classified area are included in the graphs and the analysis of the data, but the positions and analysis sheets are excluded from this report.

Strip charts of 10 of the Sonoprobe runs are presented in Figures 4 through 14. Sonoprobe run X parallels a portion of run XI and is therefore excluded.

The Sonoprobe runs at selected bottom sample stations are presented in Figures 15A through 15E.

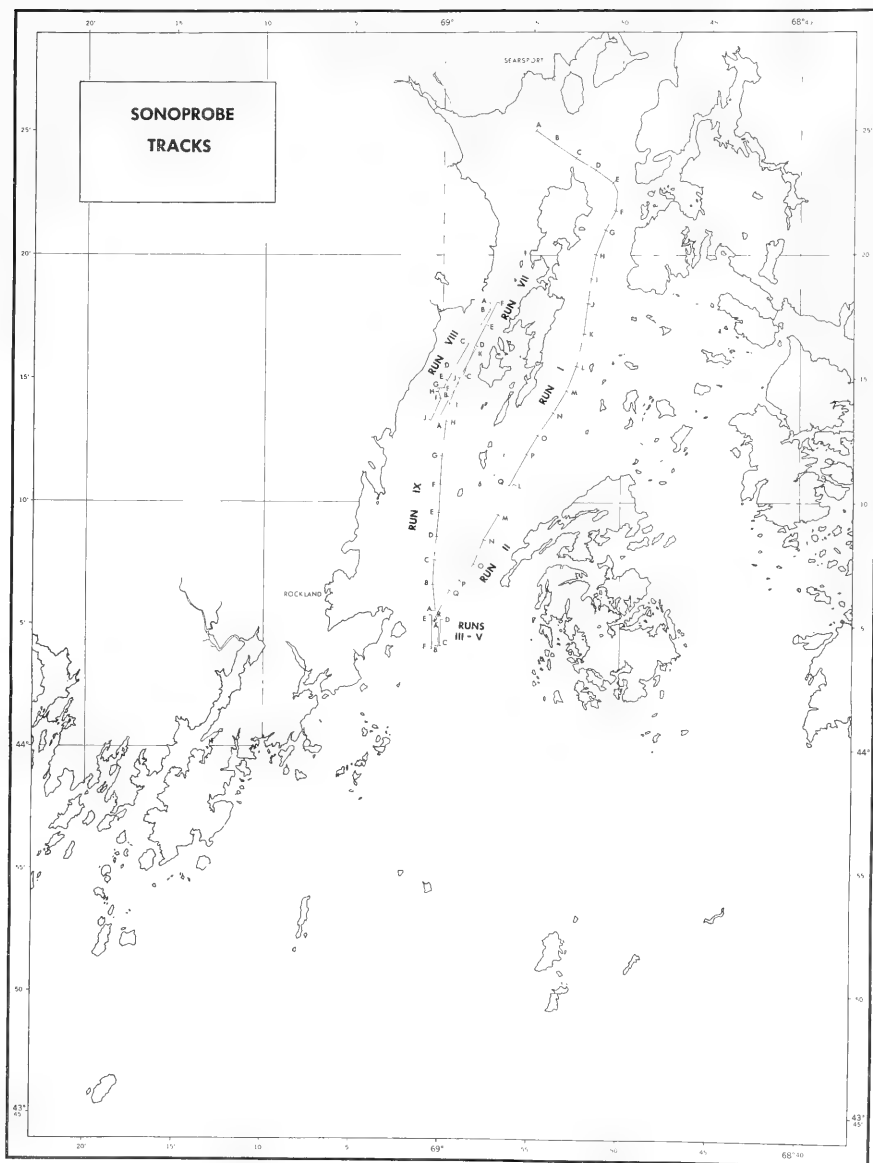


FIGURE 3. PENOBSCOT BAY SONOPROBE TRACKS

TABLE I
PENOBSCOT BAY
Sonoprobe Run Fix Locations

Run	Fix	Lat. N.	Long. W.	Run	Fix	Lat. N.	Long. W.
I	A	44°25'00"	68°54'55"	VII	C	44°15'10"	68°58'52"
	B	44 24 28	68 53 52	(cont.)	D	44 16 18	68 58 11
	C	44 23 52	68 52 38		E	44 17 10	68 57 40
	D	44 23 24	68 51 30		F	44 18 07	68 57 01
	E	44 22 54	68 50 30	VIII			
	F	44 21 48	68 50 22		A	44 18 04	68 57 22
	G	44 21 00	68 50 55		B	44 17 48	68 57 23
	H	44 20 02	68 51 27		C	44 16 22	68 58 34
	I	44 19 03	68 51 43		D	44 15 23	68 59 23
	J	44 18 03	68 51 56		E	44 14 55	68 59 46
	K	44 16 48	68 52 06		F	44 14 36	68 59 57
	L	44 15 24	68 52 30		G	44 14 35	69 00 10
	M	44 14 30	68 53 06		H	44 14 27	69 00 14
	N	44 13 36	68 53 48		I	44 14 11	69 00 05
	O	44 12 43	68 54 40		J	44 13 18	69 00 38
	P	44 11 55	68 55 15	IX			
	Q	44 10 39	68 56 13		A	44 05 35	69 00 18
II					B	44 06 38	69 00 25
	L	44 10 43	68 56 02		C	44 07 38	69 00 22
	M	44 09 30	68 56 52		D	44 08 38	69 00 14
	N	44 08 30	68 57 40		E	44 09 37	69 00 10
	O	44 07 25	68 58 12		F	44 10 43	69 00 04
	P	44 06 48	68 59 00		G	44 11 52	69 00 00
	Q	44 06 23	68 59 33		H	44 13 18	68 59 50
III	R	44 05 08	69 00 24		I	44 14 00	68 59 40
					J	44 15 00	68 59 05
IV	A	44 05 05	69 00 07		K	44 16 11	68 58 11
	B	44 04 07	69 00 09				
V	C	44 04 07	69 00 05				
	D	44 05 13	69 00 04				
VI	E	44 05 25	69 00 30				
	F	44 04 05	69 00 31				
VII	A	44 13 13	69 00 17				
	B	44 14 13	68 59 35				

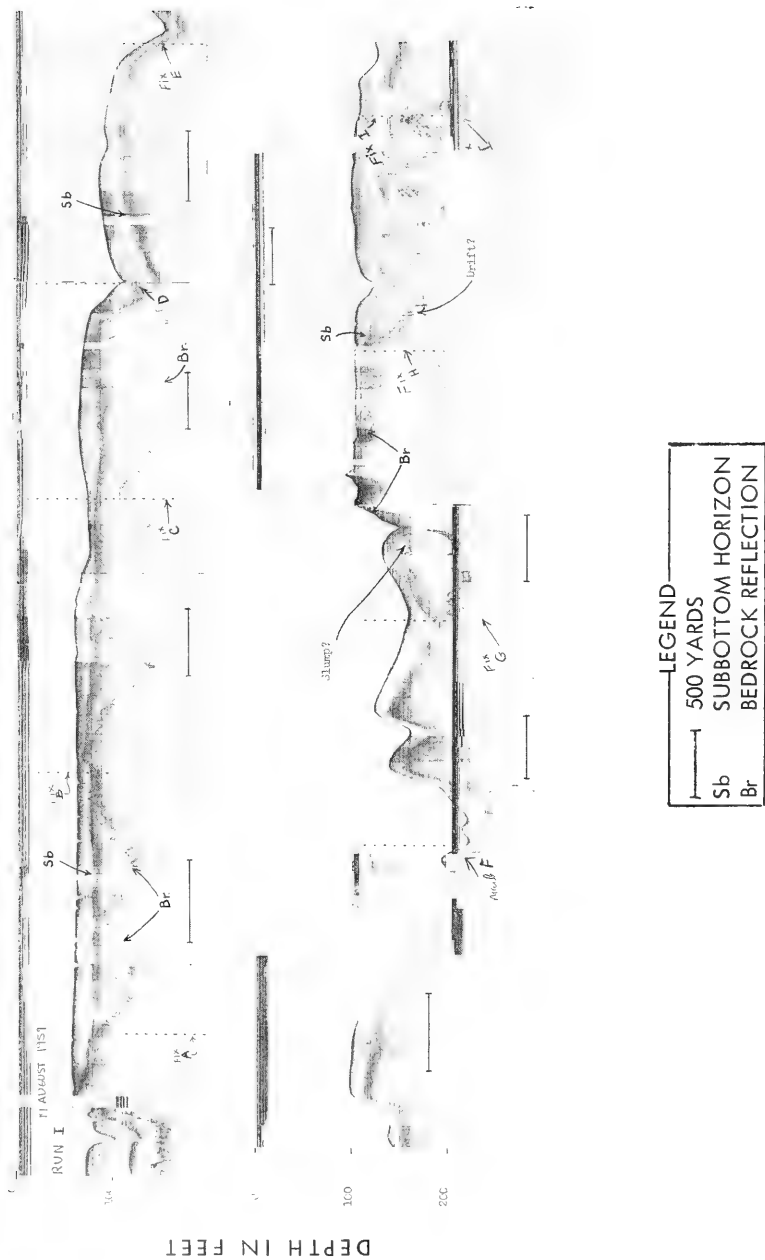


FIGURE 4. STRIP CHARTS OF SONOPROBE RUN I

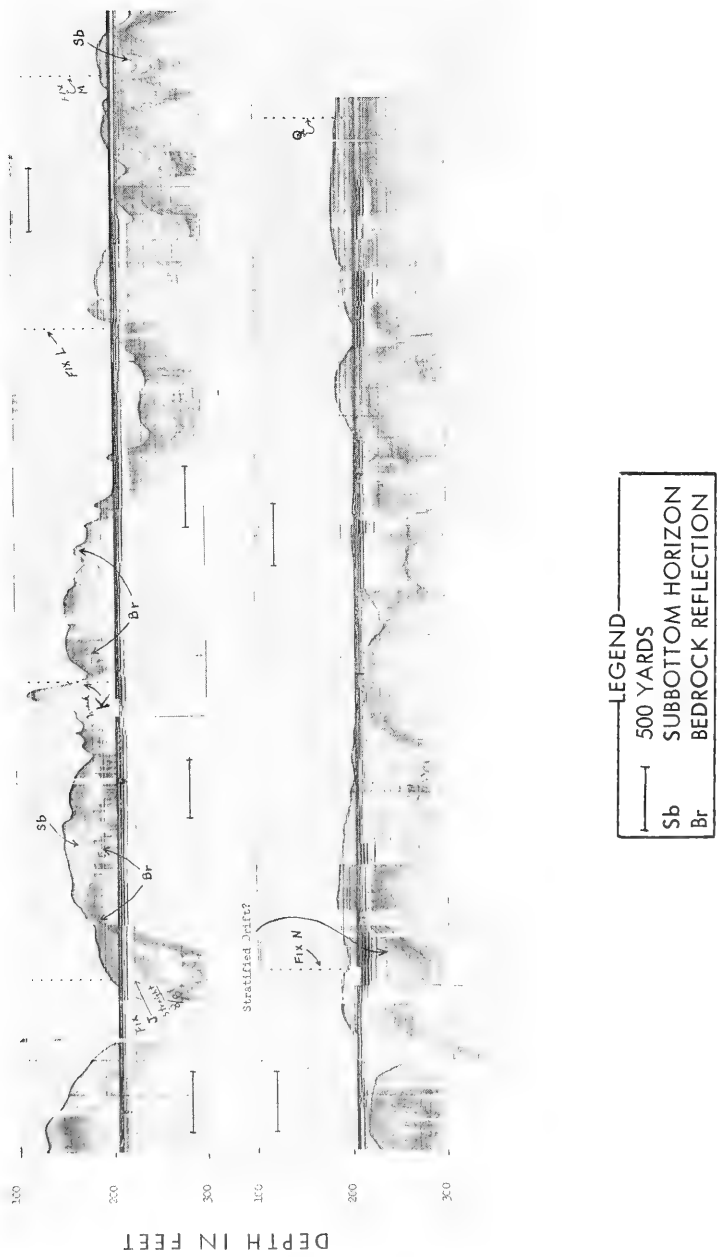


FIGURE 5. STRIP CHARTS OF SONOPROBE RUN I (CONTINUED)

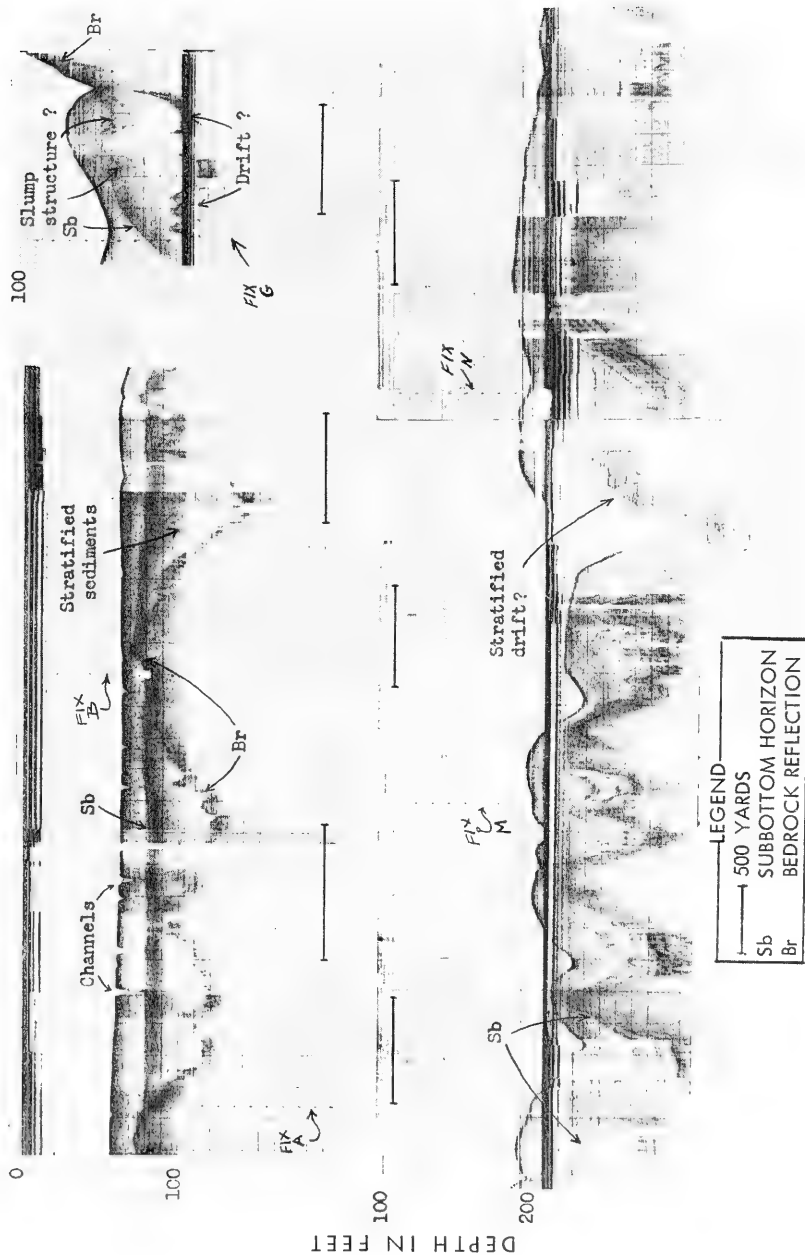


FIGURE 6. STRIP CHARTS OF PORTIONS OF SONOPROBE RUN I



FIGURE 7. STRIP CHARTS OF SONOPROBE RUN II

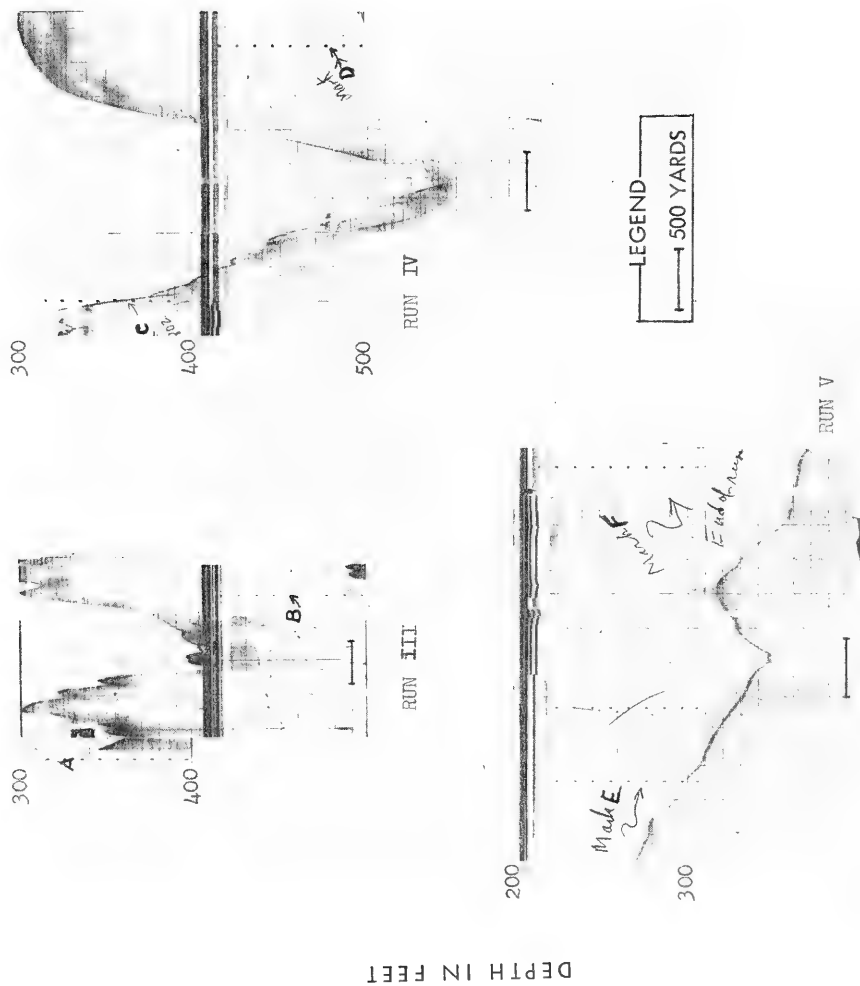


FIGURE 8. STRIP CHARTS OF SONOPROBE RUNS III, IV, AND V

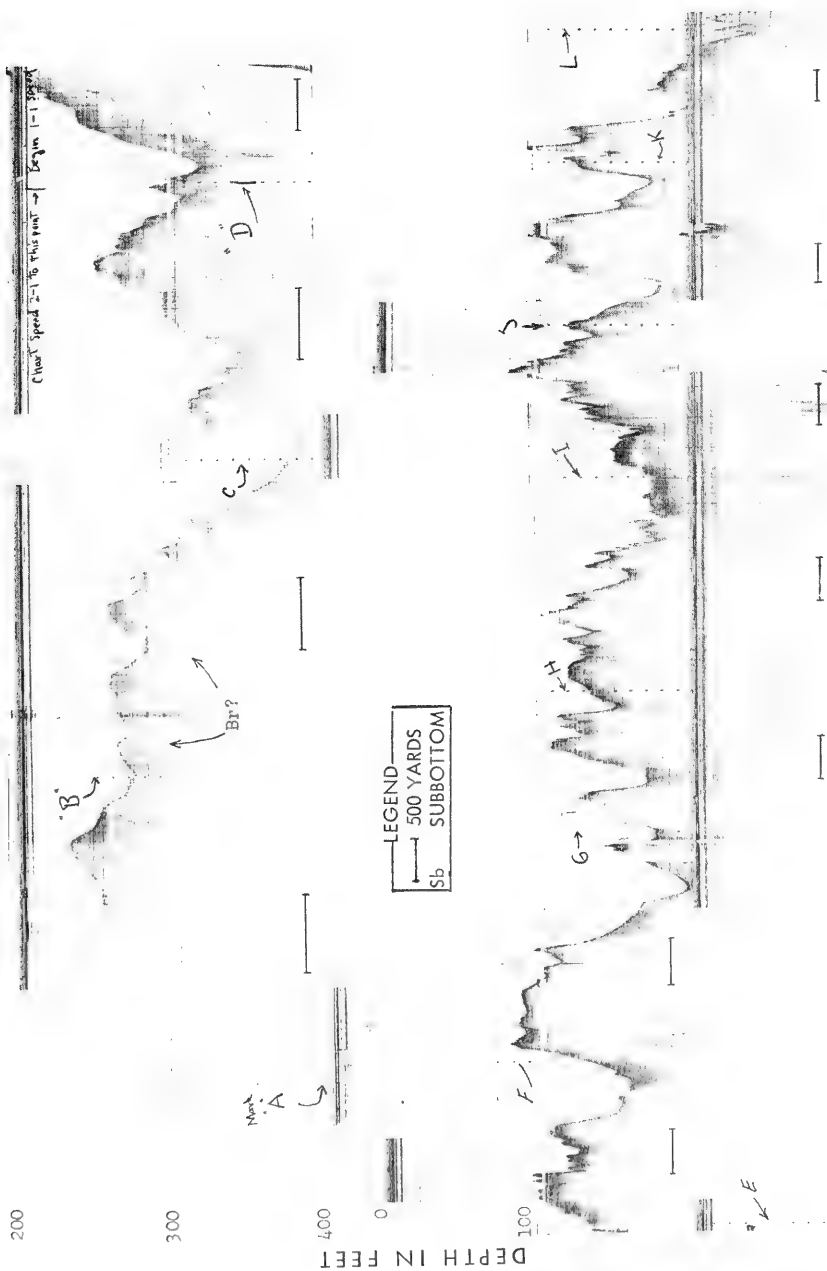


FIGURE 9. STRIP CHARTS OF SONOPROBE RUN VI

DEPTH IN FEET

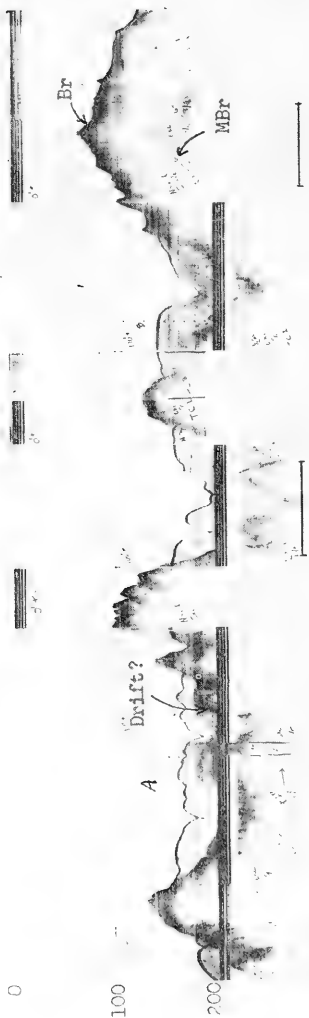


FIGURE 10. STRIP CHARTS OF SONOPROBE RUN VII

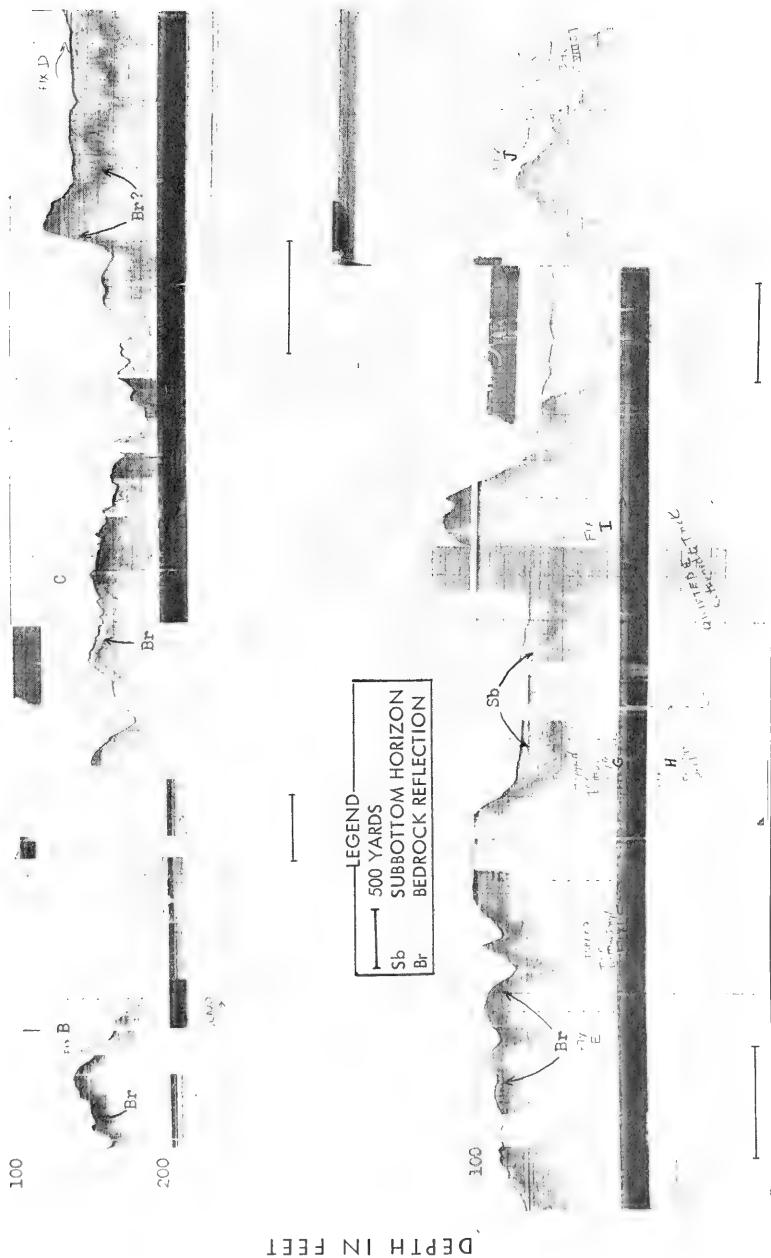


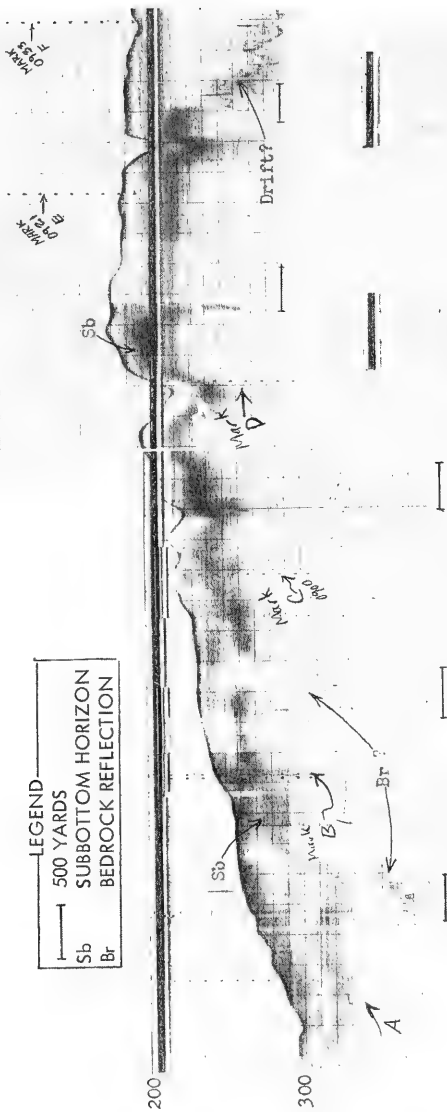
FIGURE 11. STRIP CHARTS OF SONOPROBE RUN VIII

100

200

DEPTH IN FEET

300



100

200

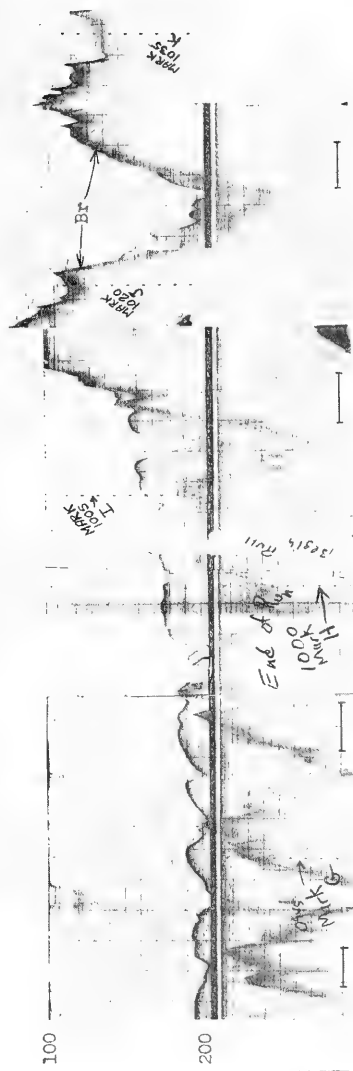
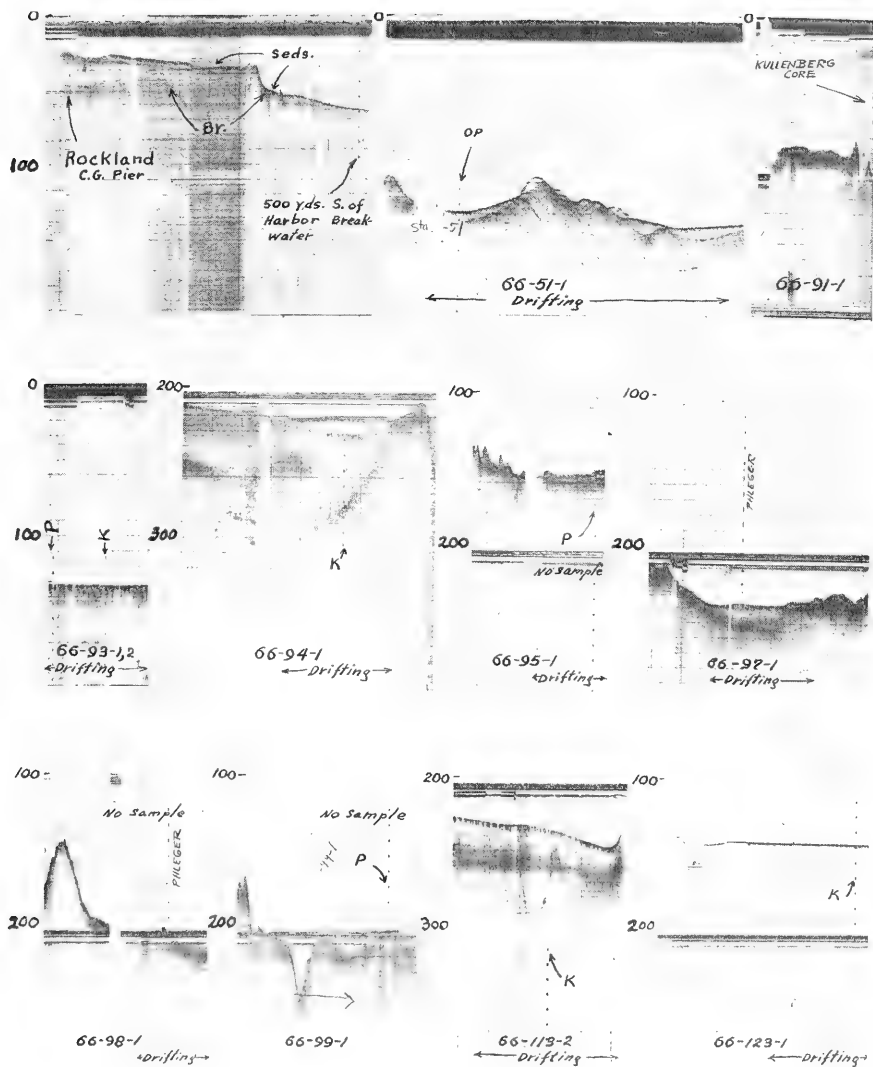


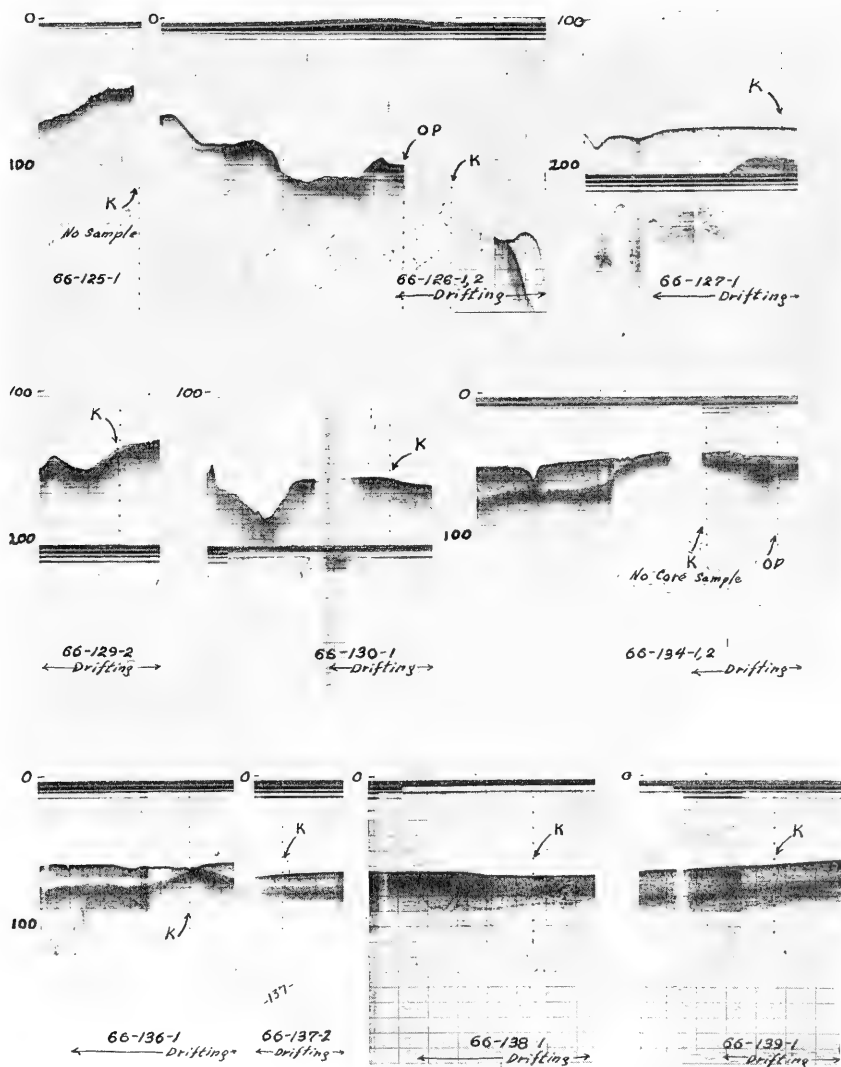
FIGURE 12. STRIP CHARTS OF SONOPROBE RUN IX

DEPTH IN FEET



LEGEND			
66-94-1	AREA-STATION-SAMPLE	K	KULLENBERG CORE
OP	ORANGE PEEL SAMPLE	P	PHLEGER CORE
Br	BEDROCK REFLECTION		

FIGURE 15A. SONOPROBE RUNS OVER ROCKLAND HARBOR AND BOTTOM SAMPLE LOCATIONS IN PENOBSCOT BAY



LEGEND			
66-94-1	AREA-STATION-SAMPLE	K	KULLENBERG CORE
OP	ORANGE PEEL SAMPLE	P	PHLEGER CORE
Br	BEDROCK REFLECTION		

FIGURE 15B. SONOPROBE RUNS OVER BOTTOM SAMPLE LOCATIONS IN PENOBSCOT BAY

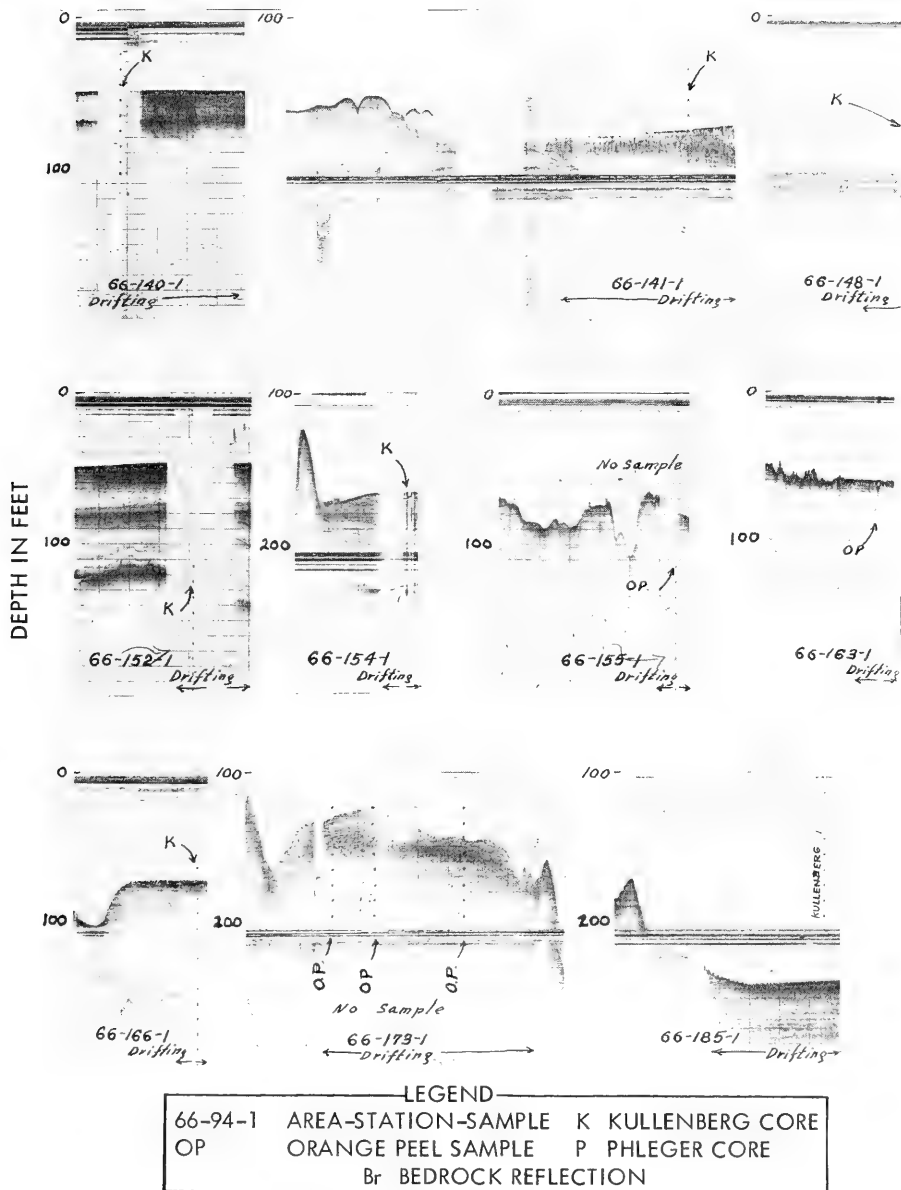


FIGURE 15C. SONOPROBE RUNS OVER BOTTOM SAMPLE LOCATIONS IN PENOBSCOT BAY

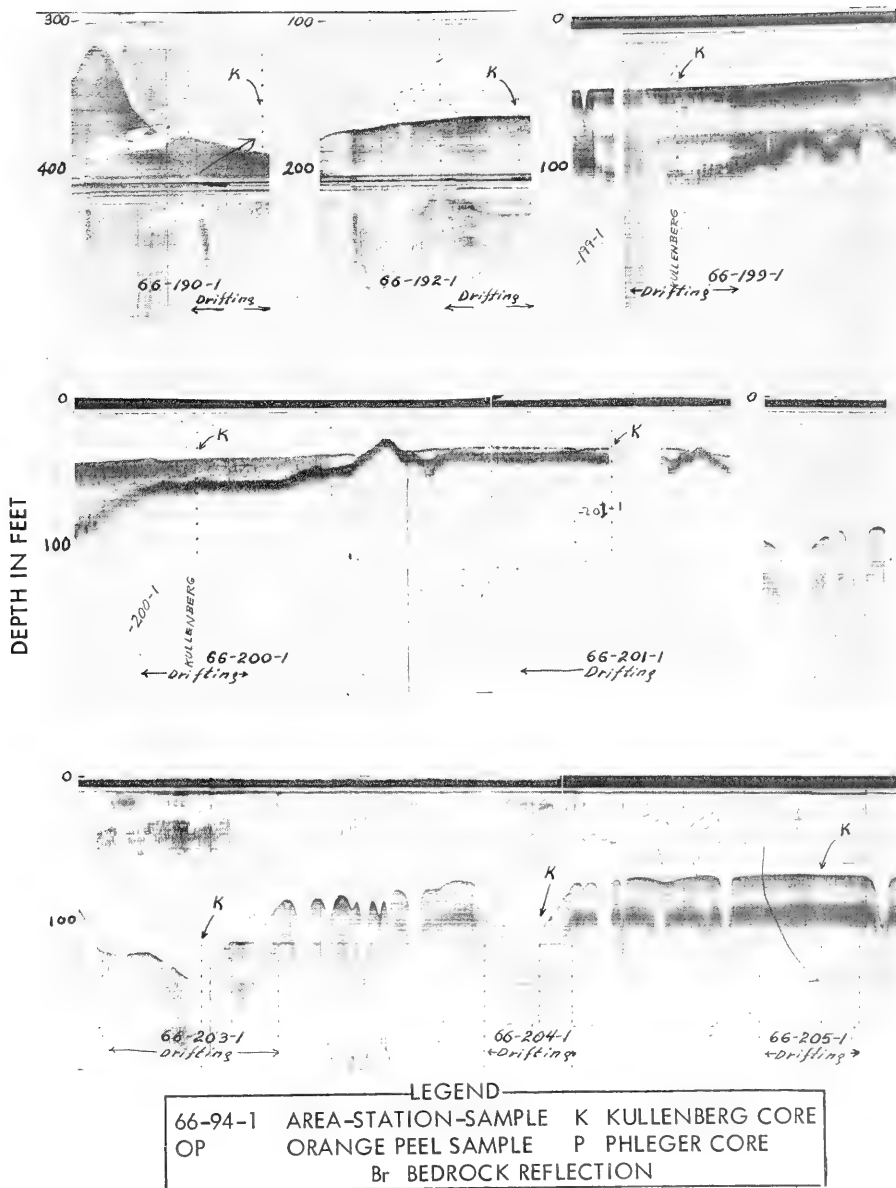


FIGURE 15D. SONOPROBE RUNS OVER BOTTOM SAMPLE LOCATIONS IN PENOBSCOT BAY

DEPTH IN FEET

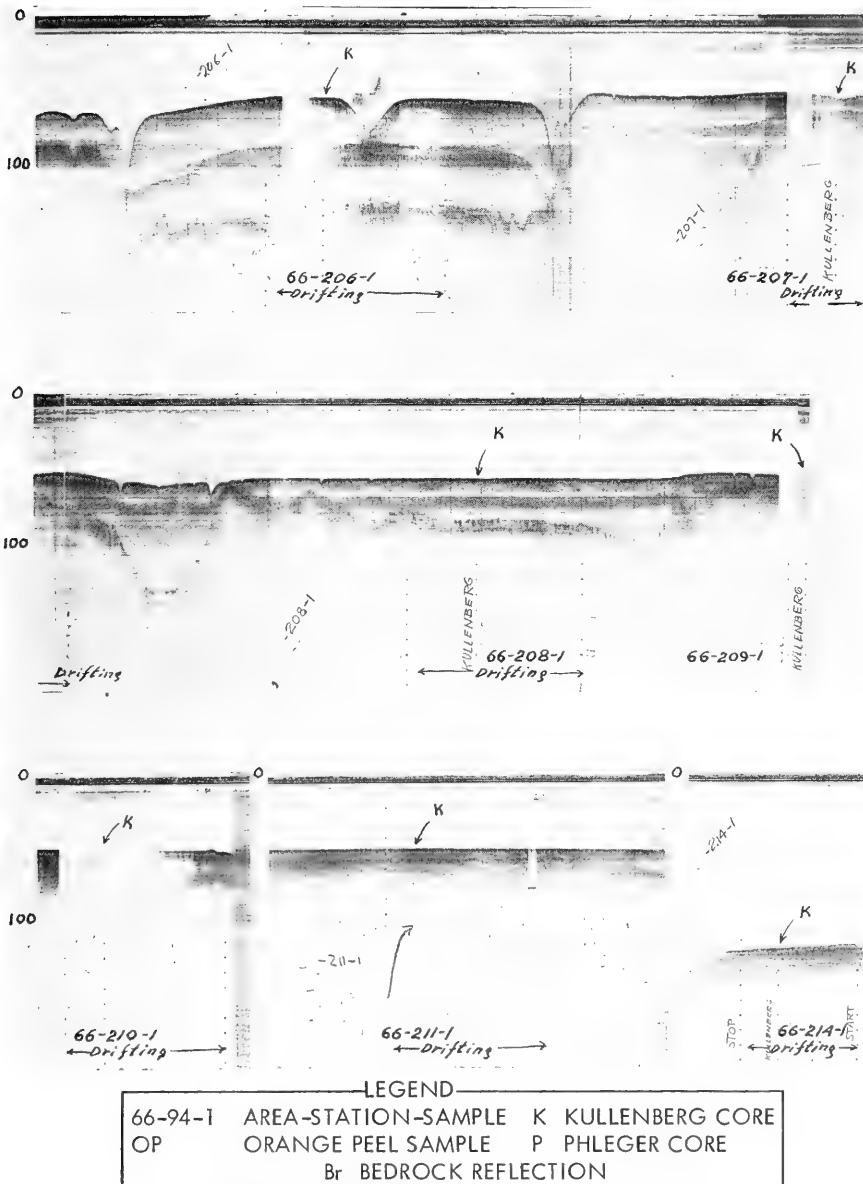


FIGURE 15E. SONOPROBE RUNS OVER BOTTOM SAMPLE LOCATIONS IN PENOBSCOT BAY

V. ANALYSIS OF SURVEY DATA

A. Sediments of Penobscot Bay

For convenience in discussing the bottom sediments, the survey area was arbitrarily divided into five parts as follows:

1. Northern part of the bay.
North of $44^{\circ}20'N$.
2. Central part of the bay, including West Penobscot Bay and the northern part of East Penobscot Bay.
 $44^{\circ}20'$ to $44^{\circ}10'N$.
3. Southern part of the bay, excluding East Penobscot Bay.
 $44^{\circ}10'$ to $44^{\circ}05'N$.
4. The entrance to the bay.
 $44^{\circ}05'$ to $44^{\circ}00'N$.
5. The approaches to the bay.
South of $44^{\circ}00'N$.

In general, from Searsport to south of Rockland the sediment cores were silty clays. South of $44^{\circ}05'N$., in the entrance and approaches to the bay, the fine-grained sediments were confined to depressions between bedrock or bedrock thinly covered with sand or gravel.

The fine-grained sediments are olive-gray, silty clays with very small amounts of fine sand and occasional pebbles. The cores, most of which were over 10 feet long, were usually uniform in color and grain size. Over two-thirds of the cores, however, contained thin beds and laminae of dark gray to black material. They usually occurred in the top foot, the top and bottom, and also throughout the length of several of the cores. Samples of the dark layers showed little textural difference with surrounding sediments. It is suspected that the dark color is due to small amounts of organic material. Analyses, however, were not made to determine the organic content of the samples. After drying, the dark layers could not be detected in the core.

Small percentages of shell, usually as broken fragments scattered throughout the core rather than confined to particular layers or zones, were found in many of the cores. Open worm burrows were found in several cores. The worm burrows crossed color and textural changes without destroying the stratification of the sediments. Small amounts of woody material also were found in a few cores.

Textural changes, in the fine-grained cores, consisted of thin laminae and lenses of silty and sandy material, soft liquid zones, and thin layers of hard bluish-gray clay. Some cores contained layers, blebs, or balls, composed of hard, seemingly dry, yellowish to brownish clayey silt and silty clay, in many cases banded and/or stained with limonitic material.

Cores containing coarser grained material and more pronounced textural changes than those mentioned above came from the northern part of the bay between Long Island and Searsport and the entrance to the bay.

Between Searsport and Long Island several of the cores contained relatively thick layers of sand and silty sand with scattered pebbles and pebbly zones. The sediments tended to increase in coarseness toward the bottom of the cores. Shallow penetration of the corer and the loss of the lower portion of some of the cores also were indicative of coarser sediments with depth below the bottom in this area.

In the entrance to the bay, the cores generally showed more variability than in the northern part of the bay; however, the changes were not as marked, and the cores were finer grained on the whole. Core 190, taken on the eastern slope of the topographic depression in the entrance to the bay, contained many slightly sandy, silty-clay layers which had a sharp lower contact and graded upward into silty clay or finer texture. Core 126 from West Penobscot Bay also displayed this type of bedding. The cores showing this weakly graded bedding may owe this condition to the settling of a slurry of sediments which were thrown into suspension by slumping of earlier deposits.

The coarse-grained sediment cores sampled in the north-central part of the bay reflect the nearness to the source of sediment, the Penobscot River. The cores are finer grained at the top indicating a decrease in energy conditions with time at the site of deposition. The finer grained cores with less significant changes in lithology are found in the remainder of this northern sector of the bay. Many of these cores contained open worm burrows and fragments of wood, as well as thin beds of coarser material. These features suggest shallow estuarine or tidal flat environments with rapid deposition taking place periodically (Hantzschel, 1939).

In the central and southern parts of the bay, the sediments are generally fine grained and uniform with depth below the water bottom. These sediments represent deposition under relatively uniform environmental conditions upon which were superimposed small scale and short lived variations. These fluctuations in the environment account for the silty and sandy laminae found in many of the cores. The black laminae found in nearly all of the cores from this portion of the bay may be due to increased rates of deposition. The uppermost layers of estuarine sediments

commonly develop a vertical profile related to chemical and biological activity (Nelson, 1962). The result is a thin layer of oxidized, semi-fluid sediment lying over a thin layer of darker sediments where microbiological activity is at a peak. Rapid burial of this profile could lead to its preservation and may be represented in the cores from Penobscot Bay by the black layers and laminae.

In the entrance to the bay, little marine sedimentation has taken place relative to the northern areas. Most of the fines, which may have been present originally, have been removed from the shallower areas by wave action and currents and deposited in the deep basins and depressions or carried away from the area. The many vertical changes in the cores reflect frequent short period changes in energy conditions over the past.

To aid in the interpretation of the present sedimentary regime of the surveyed area, the percentages of sand (including pebbles), silt, and clay found in the top 2 inches of the cores and in the grab samples were plotted to show the relationship of sediment type with distance from the northern part of the bay (Fig. 16) and to show any dependence of the median diameters of the sediments upon depth of water (Fig. 17). The surface sediment graphs show an increase in the percentage of sand to the south, but they show little relationship between grain size and water depth except for a slight trend toward finer sediments with depth in the approaches to the bay. Apparently toward the south, the increasing energy conditions, wave agitation and currents, are more important in the most recent bay sedimentation than proximity to the Penobscot River. The sedimentary data seem to indicate that the major geologic process in Penobscot Bay is the reworking of previously deposited sediments. This is characteristic of many estuaries. The amount of sediment in suspension in bay waters often exceeds that in the river or in the open sea adjacent to the bay.

At many of the grab sample stations, the surface sediments consisted of two layers: a thin upper layer of olive-gray sediments over olive-black sediments. The upper layer was liquid and seemed to contain more silt and fine sand than the sediments below. (These features were observed in the field and are not shown in the laboratory analysis.) There are two areas where the surface sediments consisted of two layers. One extends roughly from the middle of the central segment of the bay to the entrance off Rockland, and the other consists of a few locations in the approaches to the bay. To the north of the major area of two sediments, the surface sediments are olive black, but in the approaches to the bay where the two layers were not found, the sediment color was olive gray. This distribution did not show any obvious dependence on depth — only distance from the bay head was significant.

A possible explanation for these features of the surface and near surface sediments is that the finer fraction is being winnowed from previously deposited sediments in a zone extending from the central sector of the bay through the approaches. The

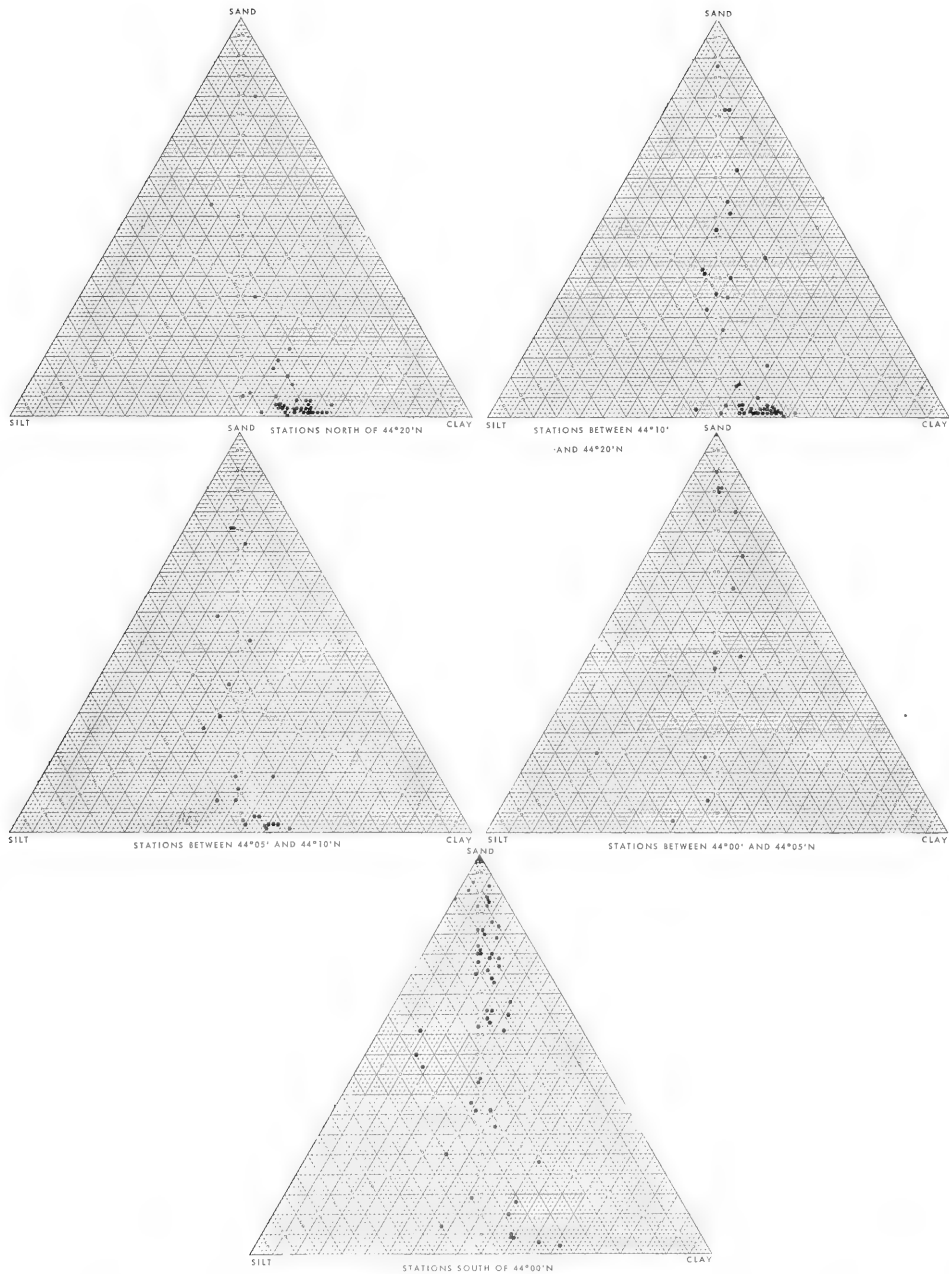


FIGURE 16 . SAND-SILT-CLAY DIAGRAMS FOR GRAB SAMPLES AND TOPS OF CORES

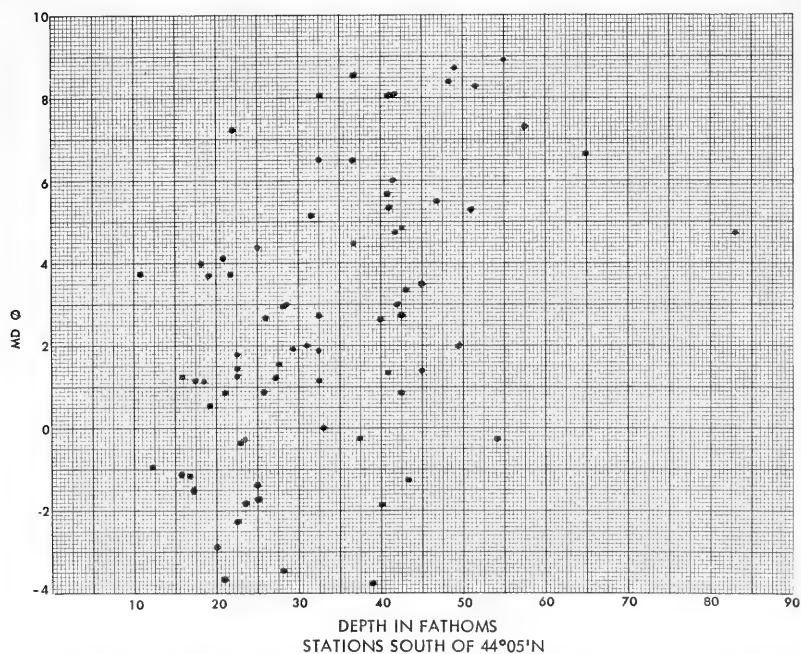
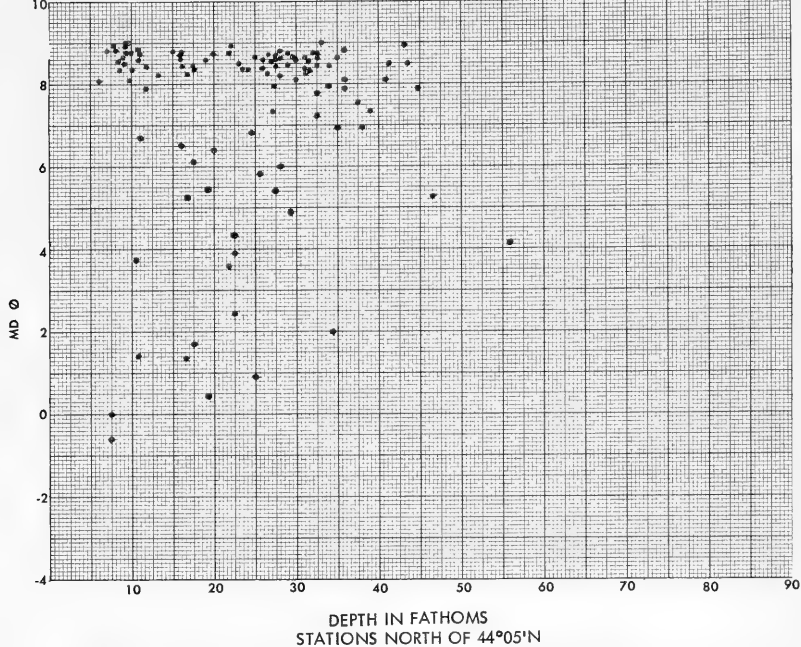


FIGURE 17. MEDIAN DIAMETER (MDØ) OF THE GRAB SAMPLES AND THE TOPS OF CORES
VERSUS DEPTH OF WATER

fine fraction may be partly carried out to sea and partly transported toward the head of the bay by the bottom water to be deposited in the northern part of the bay and on mud flats (Guilicher, 1958, p.101; Johnson, 1925, p.572).

Oxidation of the agitated surface sediments may yield a lighter colored sediment, and the extraction of the fines leaves one that is coarser than the original. The dark sediments in the northern sector probably indicate fine-grained sedimentation at present. Other explanations of the present sedimentary regime may be possible however.

At stations 29, 90, 128, 174, 178, and 189, masses and broken fragments of hard silty clay were found lying upon or partially mixed with the surface sediments. (These fragments were removed from the samples in the field.) The hard clay occurred in curled and contorted plates, irregularly shaped masses, and angular broken fragments. Some of the unfragmented samples are shown in Plate II. The outer surfaces varied from hard, dark reddish-brown, to a soft, gray, sticky-clay surface coating. The internal structure varied from banding parallel to the outer surface, to massive and relatively structureless for the less hardened globs. The samples were generally riddled with holes, some apparently the result of solution or erosion; however, most of the holes were formed prior to hardening and were caused by burrowing organisms and by roots growing in the soft mud. Many of the holes were encircled by bands of altered clay.

The material was formed subaerially, probably on mud flats which supported burrowing organisms and vegetation. The conditions leading to the development of this material probably involved drying to form mud cracks and decaying of the vegetation originally growing in the mud. The decay of the plant roots caused oxidation of the surrounding mud. The oxidation of the iron in the mud will account for the color, banding, and hardness of the material (Rousseau, 1934).

These deposits of hard clay may have arrived at their present position by flotation on vegetation, ice-rafting, or rolling under certain conditions. Subsequent deposition under water would result in fragmentation of most of the hardened masses due to differential expansion as the center of the mass became wet (Twenhofel, 1950, p.593).

In their present locations the hard-clay masses were found with crusts of bryozoans and some attached brachiopods. Little, if any, sedimentation is presently taking place at these locations. Zones and isolated occurrences of similar hard clay were found in many of the cores.

B. Sediment-Sonoprobe Correlation

Direct correlation of vertical changes in sediment type and Sonoprobe sub-bottom reflections was difficult in this area in spite of the numerous cores and grab samples obtained. Facies changes, however, could be determined fairly accurately, and a determination of general sediment type, or lack of sediment, at a sampling

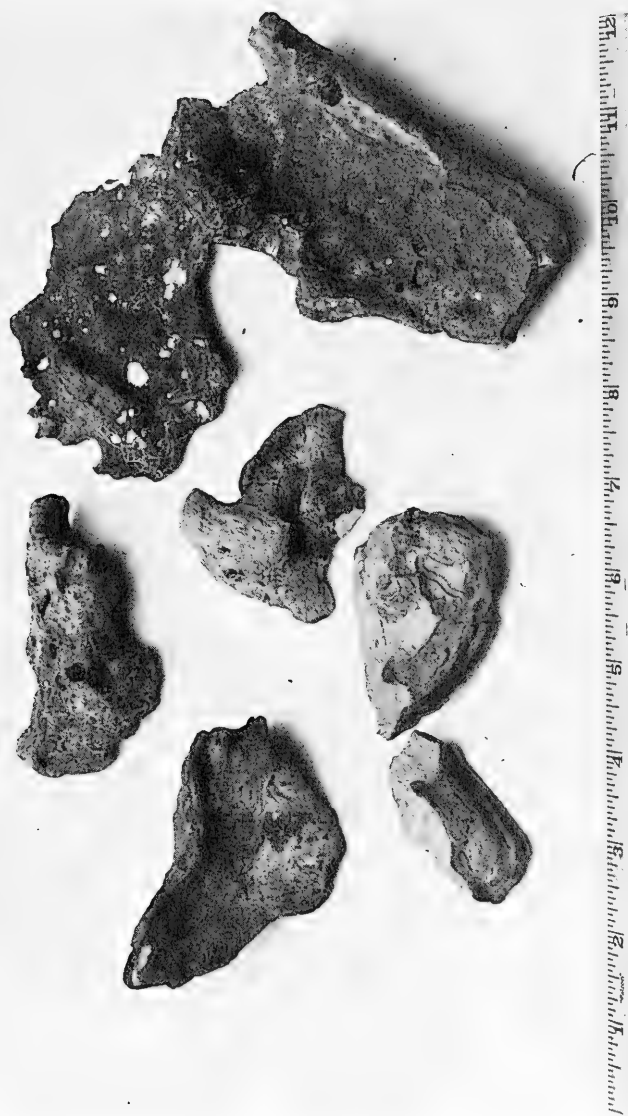


PLATE II. HARD CLAY SAMPLES

location was usually made before attempting to sample. In areas where the surface sediments were coarse grained, the deposits were found lying on bedrock. The high reflectivity of the coarse sediments and of the bedrock generally obscured the Sonoprobe record, and the resolution was poor, and thicknesses could not be determined accurately. Where the sediments were thick penetration was good, but in these locations, the sediments were usually fine grained. A prominent subbottom reflection was found on most of the runs, but it was largely unverified by sampling because of the short length of the corer and the excessive depth to the layer. Where the subbottom sedimentary layer was sampled, the sample contained coarse material, but the exact position of the reflecting horizon relative to the coarse material could not always be determined. Only cores 136, 137, 201, and 211 penetrated the subbottom layer as recorded on the Sonoprobe.

Core 136 apparently consisted almost entirely of sediments from below the subbottom horizon. (See Figure 15 for the Sonoprobe runs over the coring sites and the Appendix for the analysis sheets.) The core was poorly sorted, muddy sand with the percentage of sand increasing toward the bottom. The core was pebbly at the top and at the bottom.

The bottom of core 137 probably represents the top of the subbottom layer in this area. The core was silty and sandy to about 25 inches. Below this depth the core became moderately well sorted sands which increased in coarseness to the bottom at 108 inches.

At location 201 the sediments were sandy muds and muddy sands becoming sandier toward the bottom. The material was all poorly sorted. The subbottom reflection at 4 to 5 feet below the bottom was reflected in the core by an increase in the median diameter of the sediments. Below this depth the sediments became muddy sands again.

Core 211 probably just penetrated the subbottom layer. The core increased in coarseness from top to bottom. The top was silty clay, gradually becoming pebbly and sandy at the bottom. The lowest portion of the core was slightly disturbed owing to the sucking action of the piston when a piece of wood became firmly wedged into the core retainer preventing further entry of sediment into the core barrel.

Sandy cores showing fairly close correlation with the Sonoprobe reflections are 130, 148, and 207. Table 2 presents a description of the core data and the corresponding Sonoprobe record for comparison. Generally the comparison is good for uniform cores and in areas where there were coarse sediments or bedrock at the water bottom. The sandy laminae and layers in cores consisting mostly of finer material did not show up on the records. These beds were usually too thin to be detected, and they contained high percentages of finer material which reduced the acoustic contrast between the sandy layers and the silty clays above and below. One reason

TABLE 2

Description of Bottom Samples and Corresponding Sonoprobe Record

Sta. No.	Type Sampler ¹	Penetration (ft.)	Length of Core (in.)	Description of Bottom Samples and Remarks	Description of Corresponding Sonoprobe Record
*91-1	K	3.5	27	Mud becoming sand toward bottom. Some pebbles, shell, and woody material at bottom. (Sample disturbed. Core catcher dented.)	Bedrock overlain by thin layer of sediments.
92-1	K	0	0	Pebbles in core catcher. (Cutter and core catcher smashed.)	Much like location 91.
*93-1	P	4	12	Clayey silt.	Coarse sediments.
*93-2	K	6	50	Clayey silt.	
*94-1	K	10	114	Fairly uniform core of silty clay.	Sediments. Layer 12' below bottom and bedrock 58 feet below bottom.
*95-1	P	0	0	No sample. (Dented cutter.)	Bedrock bottom.
96-1	P	0	0	No sample. (Lost core cutter.)	Bedrock bottom.
*97-1	P	5	15	3" sandy mud over clayey silt.	15 feet sediments over bedrock. Sb at 12 feet below bottom.
*98-1	P	0	0	No core, pebbles and sand in core catcher. (Cutter dented.)	Bedrock bottom.
*99-1	P	0	0	No sample.	Bedrock bottom.
100-1	OP			Pebbles and sand.	Layer of sediments over bedrock.
101-1	OP			Pebby sand.	3 foot layer of sediments over bedrock.
102-1	OP			Sand with some pebbles.	Bedrock with a thin layer of sediments.
103-1	OP			Pebbles and sand with some shell. (Required three lowerings of sampler.)	Bedrock bottom.
104-1	OP			Silty sand and broken shell.	Bedrock bottom.
105-1	OP			Pebby sand.	Coarse sediments over bedrock.
106-1	OP			Pebby sand with some silt and shell.	Coarse sediments over bedrock. To 20 feet penetration.
107-1	OP			Sandy mud and some shell.	Sediments over bedrock, over 20 feet penetration. Sediments probably thin.
108-1	OP			Clayey sand.	Thin layer of sediments over bedrock.
109-1	OP			No sample. (Lowered sampler twice.)	Bedrock.
110-1	OP			No sample. (Lowered sampler twice.)	Seems to be thin layer of sediments over bedrock.
111-1	OP			No sample.	Bedrock with a thin layer of sediments.
112-1	OP			Large pebbles with some mud.	Thin layer of sediments over bedrock.
113-1	OP			Clayey silt.	Scattered reflections to Sb layer 22 feet below bottom. Bedrock return discontinuous.
*113-2	K	11	96?	Clayey silt with shell scattered throughout. Slight increase in sand from 22-27". Soft areas 58-59" and 72-73".	
114-1	K	11	121	Uniform core of silty clay. Shell scattered throughout.	Sediments.
118-1	OP			Pebby sand.	
118-2	K	2	1.5?	No sample retained. (Core greatly disturbed.)	1-2 feet of sediments over coarse material or bedrock.
122-1	OP			Silty and pebbly sand.	Coarse sediments. Up to 12 feet penetration.
*123-1	K	13	126	Uniform core of silty clay.	Fine grained uniform sediments. Penetration to Sb at 48 feet.
124-1	OP			Silty clay.	Uniform sediments. Penetration to over 50 feet, Sb at 28 feet.
124-2	K	12	126	Uniform core of silty clay except 78-108" where the core is less consolidated.	
*125-1	K	?	0	No sample. (Core greatly disturbed.)	Bedrock.
*126-1	OP			Silty mud.	Thin layer of sediments over bedrock.
126-2	K	?	119	Silty clay with thin lenses of sand. Last 22" distorted and probably disturbed. From 90 inches sand content increases.	
*127-1	K	13	126	Silty clay, last 15 inches unconsolidated.	Uniform sediments. Penetration to about 90 feet. Seems to be coarse till or bedrock. Sb at 20 feet.
128-1	OP			Silty mud.	Bedrock with several feet of sediments above.
129-1	OP			Clayey mud.	Layer of coarse sediments over bedrock. Layer at 4 feet below bottom.
*129-2	K	?	82	Sandy and pebbly mud to about 24 inches, where the amount of sand and pebbles decreases, to become pebbly again in the last 4 inches.	
*130-1	K	11	91?	Silty clay with zones of soft material and hard clay. Becomes sandy below 60 inches.	Faint layers at 5 feet and 12 feet. Penetration about 20 feet.
131-1	K	11	124	Fairly uniform silty clay becoming softer toward the bottom and soft zones throughout.	Maximum penetration about 80 feet. Sb layer at 34 feet.
132-1	K	11	122	Fairly uniform core of silty clay.	Uniform sediments.
133-1	K	11	127	Uniform core of silty clay with scattered shell.	Uniform sediments. Penetration to over 80 feet. Sb at 20 to 50 feet.
*134-2	OP			Muddy sand and pebbles. (Kullenberg core penetrated 2-3 feet.)	Thin layer of sediments over bedrock. Reflector at 3 feet.
135-1	OP			Silty clay.	Fairly uniform sediments. Penetration to about 60'.
135-2	K	12	92	Uniform silty clay.	
*136-1	K	?	118	Silty sand on top becoming increasingly sandy below 6 inches. Pebbles throughout.	Sb layer over bedrock. Bedrock possibly 10 feet below bottom.

TABLE 2 (Continued)
Description of Bottom Samples and Corresponding Sonoprobe Record

Sta. No.	Type Sampler	Penetration (ft.)	Length of Core (in.)	Description of Bottom Samples and Remarks	Description of Corresponding Sonoprobe Record
137-1	OP			Clayey silt	
*137-2	K	11	108	Silty clay to 8", clayey mud with pebbles to 12", silty clay to 16", sandy mud with pebbles to 25", silty sand to bottom of core.	Sediments over Sb layer at 8 feet. Faint layers at 1, 3, 4, and 6 feet.
*138-1	K	12	99	Clayey mud to 39", silty sand to 54", sandy mud to 71", and silty sand to 99".	Scattered reflectors from 5.5 to 12 feet below bottom. Reflecting horizons from 18 to 45 feet. Bedrock not penetrated at core site, but probably 60 to 80 feet below bottom.
*139-1	K	12	123	Clay silt with sandy layers at 86 to 100 inches.	Non-uniform sediments over Sb layers at 13 and 21'
*140-1	K	?	126	Uniform silty clay.	Non-uniform sediments over Sb layer at 18' below bottom. Maximum penetration to 30 feet. Bedrock not shown.
*141-1	K	12	118	Silty clay with numerous hard clay balls, hard clay layers, sand zones and pebbles.	Non-uniform sediments, many scattered reflectors to 22 feet below bottom.
142-1	K	10	92	Silty clay with sandy zones at 0-4 and 18-20 inches. Hard clay layers below 74 inches.	Layer at about 2 to 3 feet.
143-1	OP			Pebbly sand. (Not Lab. analyzed.)	Bedrock bottom.
144-1	OP			Pebbly sand plus rounded cobbles.	Thin layer of sediments over bedrock.
145-1	K	11	124	Silty clay with shell and worm burrows.	Uniform sediments. Sb at 16 feet. Bedrock may be at 140 feet below bottom.
146-1	K	11	122	Fairly uniform silty clay.	Uniform sediments.
*148-1	K	12	119	Silty clay with varying amounts of sand to 38 inches, pebbly to 41 inches. Less sand below 41 inches.	Faint layers at 2.5 to 3, 5, and 15 feet.
149-1	K	11	125	Uniform core of silty clay.	Uniform sediments.
150-1	K	11	126	Uniform core of silty clay.	Fairly uniform sediments.
151-1	K	11	24	Silty clay to 12 inches, rest of core sandy and pebbly. (Lower portion of core lost from corer.)	Sediments over bedrock.
*152-1	K	11	124	Uniform clayey silt with occasional pebbles.	Uniform sediments above Sb. Sb at 25'. 5 layers from 32 to 70 feet.
153-1	K	11	125	Uniform core of silty clay.	Fairly uniform sediments.
*154-1	K	11	125	Core of hard and soft, silty clay and clayey silt.	Non-uniform sediments over bedrock.
*155-1	OP			No sample.	Bedrock bottom.
156-1	K	11	121	Uniform silty clay, unconsolidated from 97 to 107 inches.	Uniform sediments.
157-1	K	11	127	Uniform core of silty clay.	Uniform sediments.
158-1	K	11	126	Uniform core of silty clay.	Uniform sediments.
160-1	OP			Silty sand. (Cutter smashed. Corer penetrated 1 1/2 feet. No core.)	Sediments over bedrock.
161-1	OP			Silty sand.	Bedrock with a thin layer of sediments.
162-1	OP			No sample.	Bedrock bottom.
*163-1	OP			Sand.	Bedrock bottom.
164-1	OP			No sample.	Bedrock bottom.
165-1	OP			No sample.	Bedrock bottom.
*166-1	K	0	0	Pebbly sand. Sample from core catcher, fines washed out.	Coarse sediments.
167-1	OP			No sample. (Sampler lowered twice.)	Bedrock.
168-1	OP			No sample.	Bedrock or coarse sediments.
169-1	OP			Clayey sand with pebbles and shell.	Bedrock with some sediments.
170-1	OP			Clayey sand with pebbles and a high percentage of shell. (Sampler lowered twice.)	30 feet penetration. Possibly coarse sediments over bedrock.
171-1	OP			Clayey sand with pebbles and shell.	Coarse sediments over bedrock.
172-1	OP			No sample.	Bedrock bottom.
*173-1	OP			No sample. (Sampler lowered three times.)	Bedrock or coarse sediments, to 35 feet of penetration.
174-1	OP			Sandy mud and pebbles.	Bedrock with cover of sediments.
175-1	OP			Pebbly sand with a high percentage of shell.	Bedrock.
176-1	OP			No sample. (Sampler lowered twice.)	Sediments to possibly 25 feet over bedrock.
177-1	OP			Clayey sand. (Corer penetrated 4 feet, no sample retained.)	Sediments of variable thickness over bedrock.
179-1	K	12	124	Clayey silt with hard, soft, and sandy zones.	Uniform sediments.
180-1	K	12	126	Clayey silt with sandy zone at top.	Fairly uniform sediments.
181-1	K	?	65	Alternating clayey silt, sandy mud and clayey silt.	Uniform sediments.
182-1	OP			Sand with larger rock fragments.	Bedrock.
183-1	OP			Pebbly sand with a high percentage of shell.	Bedrock.
184-1	OP			Clayey sand.	Sediments over bedrock.
*185-1	K	9	17	Sand and pebbles grading downward to silty mud. (Corer penetrated 4 feet.)	Non-uniform sediments. 40 feet of penetration.
186-1	OP			Clayey sand plus one rounded cobble.	Thin layer of sediments over bedrock.
187-1	OP			Clayey sand with pebbles and larger subround rock fragments.	Possibly 20 feet of sediments over bedrock.
188-1	OP			Pebbly sand and some larger rounded rock fragments.	Coarse sediments.
189-1	OP			Sandy mud.	Some sediments over bedrock.
*190-1	K	?	77	Clayey silt and silty clay with many thin layers of sandy material and hard clay. (Core slightly disturbed.)	Fairly uniform sediments.
191-1	K	?	116	Uniform clayey silt.	Fairly uniform sediments.

TABLE 2 (Continued)

Description of Bottom Samples and Corresponding Sonoprobe Record

Sta. No.	Type Sampler	Penetration (ft.)	Length of Core (in.)	Description of Bottom Samples and Remarks	Description of Corresponding Sonoprobe Record
192-1	K	13	109	Uniform silty clay.	Fairly uniform sediments. Sb at 50 to 60 feet and appears to be coarse sediments. Penetration to 110 ft.
193-1	K	12	121	Uniform silty clay.	Fairly uniform sediments.
194-1	K	12	85	Uniform silty clay.	Uniform sediments.
195-1	K	12	119	Uniform silty clay.	Fairly uniform sediments.
196-1	K	12	120	Fairly uniform silty clay.	Probable layer at 2 feet.
197-1	OP			Silty mud. (Sampler lowered twice.)	Thin layer of sediments over bedrock.
198-1	K	13	107	Fairly uniform silty clay.	Uniform sediments. Sb at 33 feet and bedrock at about 40 feet below bottom.
199-1	K	13	114	Uniform silty clay.	Faint layer at from 3 to 8 feet below bottom. Sb layer at 30 feet and bedrock at about 55 feet below bottom.
200-1	K	13	129	Uniform silty clay.	Fairly uniform sediments. Sb pinches out over bedrock at 15 to 18 feet below bottom.
201-1	K	6	68	Clayey silt at top becoming sandy with depth in core. Sandy mud from 48 to 64 inches. Scattered pebbles throughout.	Layers at 4 and 5.5 feet. Bedrock at 8.5 feet below bottom.
202-1	K	12	121	Uniform silty clay.	Uniform sediments. Sb 22 feet below bottom.
203-1	K	12	125	Uniform silty clay.	Uniform sediments.
204-1	K	11	120	Uniform core of silty clay.	Uniform sediments.
205-1	K	11	116	Uniform core of silty clay.	Possible layer at 5 feet, Sb layer about 20 feet below bottom.
206-1	K	11	122	Uniform core of silty clay.	Uniform sediments. Sb layer at 33 feet and bedrock about 75 feet below bottom.
207-1	K	12	109	Clayey and silty mud to 48 inches. Below 48 inches sand and pebble content increases.	Faint layer at 4 feet.
208-1	K	13	125	Silty clay to 82 inches, sand and pebble content increases to 104 inches, silty clay to bottom of core.	Layer at 9 feet, bedrock at 20 feet below bottom.
209-1	K	5	55	Silty clay with increasing amounts of sand and some pebbles to 38 inches. 38 to 55 inches of clayey silt.	Uniform sediments to Sb at 12 feet, bedrock at 28 feet below bottom.
210-1	K	12	119	Fairly uniform core of silty clay. Increased amount of sand at bottom.	Possible layers at 7 and 10 feet below bottom.
211-1	K	10	94	Silty clay to 40 inches, sand increasing with depth. 40 to 94 inches sandy silt becoming pebbly sand at bottom. (Lower portion of core disturbed, fines probably washed out.)	6 layers between 15 and 50 feet, very faint.
212-1	K	13	121	Uniform core of silty clay.	Layer at 6 feet below bottom.
213-1	K	12	110	Uniform core of silty clay. Sandy at bottom.	Possible layer at 2 feet, Sb at 18 feet below bottom.
214-1	K	12	118	Silty clay with silty and sandy lenses and hard clay zones to 44 inches. 44 to 118 inches silty clay with a few silty layers.	Layers at 10, 15, and 20 feet below bottom.
215-1	K	12	124	Fairly uniform core of silty clay.	Faint layers at 3.5, 7 and 10 feet below the bottom.
216-1	K	11	117	Uniform core of silty clay.	
217-1	K	?	125	Uniform core of silty clay.	Layers at 3.5 and 6 feet below bottom.
					Uniform sediments with a possible layer at 2 feet.

1 K. . . Kullenberg Sampler
P. . . Phleger Sampler
OP. . Orange Peel Sampler

2 Sb. . . Subbottom Horizon
* Sonoprobe Record shown on Figures 15A Through 15E.

why reflections recorded on the Sonoprobe while lying-to at a sampling location often could not be correlated with the core taken at the station is lack of lateral continuity of the sedimentary layers. Rapid lateral and vertical lithologic changes are to be expected in estuarine environments where daily and seasonal changes in the energy conditions affect the quantity and type of material deposited at any location. In some cases, an apparent sedimentary layer recorded by the subbottom profiler while on station at a sampling location may be due to side echoes from highly reflective strata or a point source not directly beneath the ship.

On nearly all of the Sonoprobe runs in the survey area, penetration to bedrock was achieved. The greatest depth of signal penetration to bedrock was about 110 feet. Nevertheless, the thickness of the sediments in the center of the bay opposite Rockland may have been somewhat greater since over 100 feet of penetration was achieved, yet bedrock was not encountered.

The silty clays that make up most of the bay sediments permitted penetration to over 100 feet. There are indications that 20 to 40 feet of penetration is possible through a sequence of silty-clay sediment that also contains sand layers which are several feet thick. Cores 130, 137, 138, and 211 all contained several feet of fine to coarse sand. Although the bedrock trace was not apparent on the Sonoprobe records at these stations, the acoustic signal had penetrated 15 to perhaps 40 feet below the bottom. At locations 129, 136, 148, 201, 207, and 209, the bedrock trace was faint, but the signal had passed through at least several feet of sand as shown by the cores. The sandy sediments were all poorly sorted and contained an average of 30% silt- and clay-sized particles. The thickness of coarse material below the sampled depth down to bedrock is not known, but the acoustic signal had passed through the coarse material which lies in the zone of the subbottom reflecting horizon.

C. Interpretation of Subbottom Records

1. General

In an attempt to utilize the Sonoprobe as a tool in understanding and determining the types and conditions of deposition of subbottom sediments, factors such as instrument capability, geologic history, and sedimentary data must be taken into account. With this knowledge of the instrument and the area under study, it is possible to know what can actually be determined with the instrument, what types of sediments are to be expected, and, more specifically, what the characteristic reflections and penetration are of these known surface and near surface sediments. Some of these factors were discussed in previous sections.

The bottom and bedrock beneath the bottom produce the strongest reflections; soft sediments allow the greatest penetration, and clean sands and gravels permit very little signal penetration. The detection of subbottom sedimentary layers depends upon the acoustic contrast of the horizon in question and the sediments above. The differences in acoustic impedance, producing the contrast between sediments, are mainly due to textural and density differences.

The first problem encountered in interpreting subbottom records is to determine real echoes from multiple echoes and side, or ghost, reflections. Multiple reflections from the air-water interface can generally be resolved in as much as the multiple will appear on the record at twice the depth of the true horizon, and any dip to the horizon will be shown on the trace at twice the apparent dip of the real horizon. Multiples due to reverberation or scattering of the sound in a very coarse sedimentary deposit is also a possibility. Reflections such as those on run I (Figs. 4, 5, and 6) between marks G and N may be caused by a deposit of this type. This record shows a dark irregular zone of reflections.

Side reflections are due to reflections from horizons or point reflectors not beneath the ship but in the insonified area. As an example, in 100 feet of water, the Sonoprobe will insonify an area beneath the ship to a distance of over 25 feet from the normal to the transducer. A point reflector on the bottom within this radius will be recorded as a reflection up to 3 feet below the water bottom. When steaming or drifting these side reflections may be recorded as an arcuate (concave downward) trace on the record. An example of these reflections may be seen in Figure 7; mark N of run II. Side reflections from a hummocky bottom are shown in Figure 15A at station 51.

Once the validity of a reflection is established, the nature of the reflecting surface can then be determined. The water bottom is the first reflecting surface and in this area may be sediments, coarse glacial deposits such as till or outwash, or bedrock. The nature of the bottom is determined from the Sonoprobe record by the depth of signal penetration and the topography of the bottom. A sedimentary bottom will generally have a smoother profile and allow greater penetration than bedrock or glacial till, depending upon the grain size of the sediment. A bedrock bottom will show considerable relief and will reflect nearly all of the signal, giving a dark bottom trace with little if any penetration. Coarse sediments over bedrock are more difficult to determine. The topography and character of the reflections are similar to those obtained over bedrock. Bottom sampling in this case usually resolves the problem only to the extent that it tells whether or not some sediments are present.

The above criteria also are used to determine bedrock reflections below the bottom. Coarse glacial deposits again present a problem, but some penetration is usually obtained. The penetrating signal may experience reverberation, and random patterns of reflections may be recorded, depending upon the coarseness of the material.

The subbottom (or Sb horizon as shown on the records in this report) is defined for the purpose of interpreting the Sonoprobe records as any laterally continuous reflecting horizon below the bottom, except bedrock or coarse glacial material. This definition causes no ambiguity in the Penobscot Bay area since only one such reflection was found beneath the bottom, and it is physically and genetically related throughout the area. Cores 136, 137, 201, and 211, although not precisely defining the nature of this horizon, do indicate that at the depth of this horizon the sediments are considerably coarser than those above.

2. Sonoprobe Runs

a. Run 1

Run 1 (Figs. 4, 5, and 6), starting near Searsport and extending through the eastern portion of the bay, illustrates nearly all of the bottom and subbottom features found throughout the surveyed area. From marks A to D, the bedrock trace is very distinct and shows characteristic reflections and topography. In this area, the subbottom reflecting horizon and the bottom are essentially flat. The subbottom horizon truncates against the higher peaks of bedrock at depths of about 80 feet. The top of the sediments represented by this horizon are probably the late glacial clays described in the geology of the land areas. At this horizon, poorly sorted sands and pebbly sands were sampled, but since there was considerable penetration until bedrock was encountered, it is reasonable to assume that the sediments below the subbottom reflecting surface decrease in coarseness with depth. The sediments above the subbottom horizon are silty clays and sandy silts.

Between fixes A and B, several channels from 2 to 18 feet deep and up to 90 feet wide are cut into the surface layer of sediments. Channels also appear on several of the records over the coring sites in this general area. The channels are all in the northwestern portion of the northern sector of the bay in depths of 70 to 80 feet. In the vicinity of core locations 203 through 206 (Figs. 15A to 15E), there are several channels extending through the subbottom layer which is found at depths of 90 to 115 feet.

Between fixes B and C, faint stratification of the sediments below the subbottom horizon was recorded. Similar features were found at core locations 138, 139, and 210. It is possible that this stratification represents old channel deposits of the Penobscot River. The corer did not penetrate these layers.

As the subbottom goes deeper, south of mark D, the top of this layer becomes less sharply defined, and the contact seems to be gradational with the sediments above. The relief of this horizon and of the bottom becomes greater beyond this point. South of mark D, the bedrock reflection becomes less distinct and is lost in

many places owing to either the greater depth of bedrock or an increase in the coarseness of the material above the bedrock which prevented signal penetration.

South of mark G to mark N, the lowest reflecting horizon does not have the characteristics of the bedrock reflections in the beginning of the run. The topography of the horizon is hummocky, and the reflections seem to come from a zone rather than a surface. Bedrock is present between marks G and H and at mark K. Elsewhere, this horizon is probably coarse glacial material of varying thickness resting on bedrock. These deposits may be moraine, till, or stratified drift in places. The depressions between the ridges appear to be partially filled with coarse sediments showing some stratification. The well stratified sediments at fix N strongly suggest glacial outwash.

The subbottom reflecting horizon over these probable glacial deposits is scattered and irregular, and the sediments appear to be draped over the high points of the material below. In some areas, the silts and clays above the subbottom horizon follow the subbottom topography, and in other places they fill in the depressions and tend to reduce the bottom relief. About 500 yards south of fix G, the bottom topography and the subbottom reflections suggest slumping of the sediments from the bedrock high to the south. Slumping may also account for some of the features found between the hummocky peaks below the bottom between marks L and N.

b. Run II

In the beginning of run II (Fig. 7), the bedrock appears to be mantled by coarse glacial material, overlaid by the subbottom layer. Continuing south along run II, evidence of bedrock or coarse glacial material is not apparent. It is here that the sediments are thickest, probably on the order of 150 feet, since bedrock is not encountered with over 100 feet of penetration. Beyond mark M the subbottom horizon becomes discontinuous. At mark N, the arcuate subbottom reflections are probably due to lenses of coarse sediments without great lateral extent. The shapes of the reflections are due to the high reflectivity of the material and the spread of the transmitted signal as the ship passed over these reflectors.

c. Runs VII, VIII, and IX

Run IX (Fig. 12) begins in the south near the end of run II and extends northward in the western portion of the bay. In run IX, the subbottom is defined better than in run II, but the horizon ends abruptly between marks E and F. Up to this point, the bedrock trace is shown only faintly and intermittently on the record. North of this point it is clearly shown. The subbottom layer apparently consists of coarse material, causing a considerable reduction in signal penetration. The lowest reflecting horizon appears to be bedrock with little evidence of coarse glacial material above; however, run VII (Fig. 10), which parallels run IX for a portion of its

length, shows features believed to be characteristic of coarse glacial sediments. The lack of similar reflections is probably due to the scales of the recordings. Run VII has a vertical exaggeration of about 15 times, while run IX has an exaggeration of 60. Run VII is probably the most representative of the actual subbottom conditions.

North of mark B on run VII, the bottom is bedrock thinly covered by sediments. Run VIII also shows a bedrock bottom only thinly covered by sediment. Slumping is suggested by the subbottom reflections at mark F on run VII.

d. Runs III, IV, V, and VI

Runs III, IV, and V (Fig. 8) begin near mark R on run II and cover the area southward, the deepest part of the bay. The maximum depth is about 540 feet shown on run IV. The deepest portions of the basin seem to be bedrock thinly covered by sediments. The sediments thicken to the north and west. Run VI (Fig. 9), continuing south from the end of these three runs, again shows bedrock covered by sediments which become thinner and spotty to the south.

e. Run XI

Run XI (Figs. 13 and 14), in the northwest approaches to the bay, shows mostly bedrock with sediments filling many of the depressions. From beyond fix E to fix H the sediment cover is thicker, and the subbottom horizon is present in places.

VI. CONCLUSIONS

The sediments and subbottom evidence indicate that glaciation and marine submergence were the cause of most of the topographic and sedimentary features found in the bay and its approaches. Although Penobscot Bay undoubtedly owes its major morphological features to preglacial stream erosion, subbottom evidence indicates that glacial erosion was largely responsible for forming the basin in the entrance to the bay. As interpreted from the Sonoprobe records, the floor of the basin is bedrock mantled by a relatively thin layer of sediments. The southern flank of the basin has a thicker cover of sediments, but all indications are that bedrock and not coarse glacial debris lies beneath these deposits. Personal observations of glacial striations on Mt. Battie, 7 miles north of Rockland, indicate glaciation parallel to the length of the bay. This direction of ice movement would tend to encourage glacial scour of the valley floor. Although the topography of the land areas does not support this view, the bedrock geology does add a degree of credence. The granite contact, shown on Figure 18, probably strikes northeast through the southern flank of the depression. The granite lies to the south whereas more easily eroded rocks lie to the north.

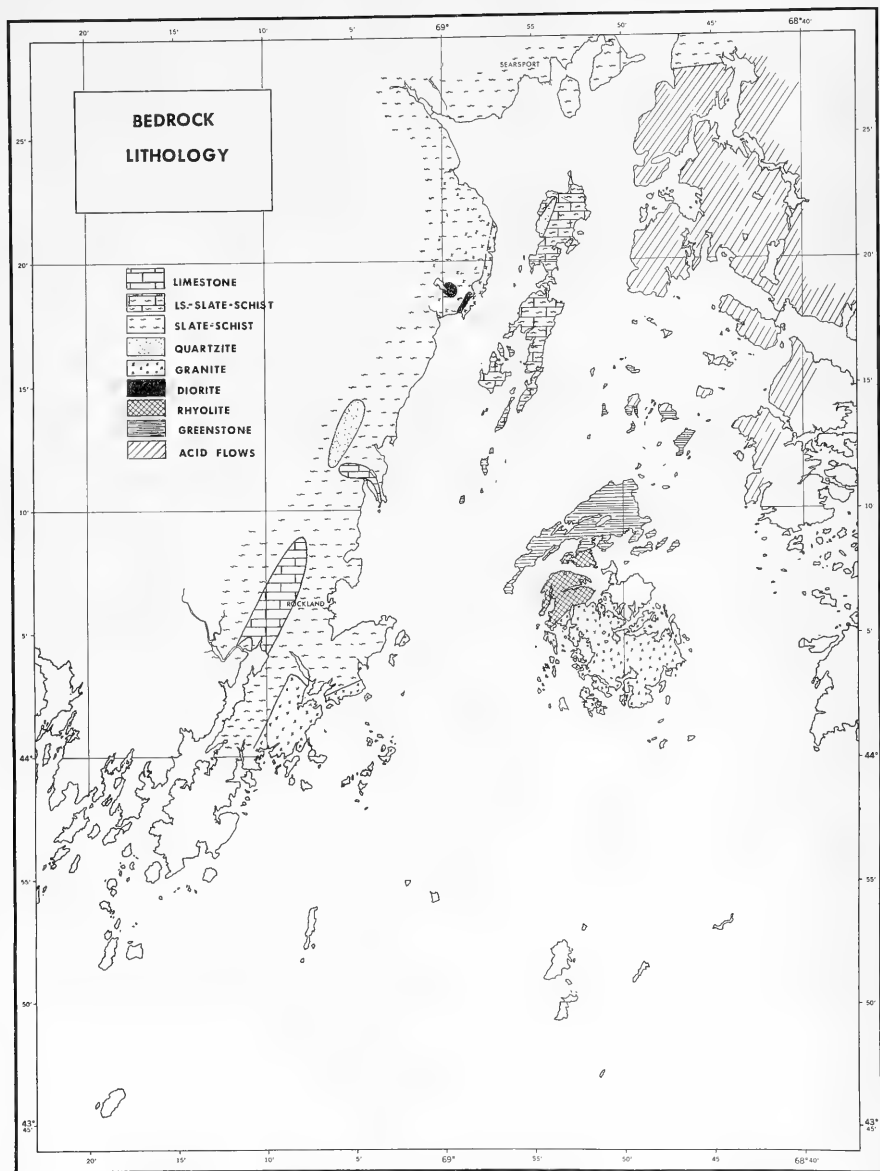


FIGURE 18. PENOBSCOT BAY AREA BEDROCK LITHOLOGY
(after Bastin, 1908, and Smith, et.al., 1907)

The glacial drift lying on bedrock can only be inferred. The coarse deposits noted in the discussion of the Sonoprobe runs are most likely glacial material deposited by the last ice sheet (Cary) to occupy the preglacial Penobscot River valley. The stratification of some of the deposits recorded at fix N of run I are probably outwash deposits from the last ice sheet, or a late remnant or lobe trapped in the valley depression north of fix N. The material below the subbottom and above the bedrock north of fix N to about fix L could be till and ice contact deposits which record a stand of the ice sheet during its regression.

Following deglaciation, or perhaps contemporaneously with deglaciation, the sea inundated the coastal area to a maximum of 300 feet above present sea level. The sediments deposited during this time were not sampled, but probably they do not differ from the silty clays described in the geology of the land areas. These are the sediments below the subbottom horizon in Penobscot Bay.

The two sequences of late-glacial marine sediments (Leavitt and Perkins, 1935) are not apparent on the Sonoprobe records. The deposits noted as till or ice-contact deposits on run I south of marks H and L, however, may be marine sediments deformed by a later advance of the ice sheet. The subbottom records do not resolve the problem since either interpretation of these deposits may be possible.

The sediments below the subbottom horizon were deposited in shallow water by sediment laden glacial meltwater in the bay and elsewhere (Bastin, 1908, and Goldthwait, 1949) during the transgressive phase of the marine submergence. The development of the subbottom horizon requires a marked change in conditions over the previous depositional cycle. The few cores which approached or penetrated the subbottom reflecting surface indicate that at or above this level the sediments are pebbly and silty sands. This horizon is flat north and northeast of Long Island at maximum depths of 70 to 80 feet below sea level. Northwest of Long Island, inside the 60-foot contour, this horizon drops abruptly to 90 feet and greater. Towards the shores in the northern sector of the bay the subbottom horizon becomes shallower.

In the central and southern sectors of the bay, the subbottom horizon is deeper, becomes less continuous, is probably more variable in its degree of coarseness, and has considerable relief relative to the northern part of the bay. The top of the horizon also appears to be gradational with the sediments above and below as the echoes are not as sharply defined as in the northern part of the bay.

As mentioned above, the sediments below the subbottom marker horizon are probably late-glacial marine clays described in the literature for the surrounding land areas. The sediment-Sonoprobe correlation is not precise enough to assign the coarse material found at or near this horizon to the top of the late-glacial clays or to the base of the sediments above. This may not be of great significance, however,

since the form and topography of this horizon does indicate a lower stand of the sea. This horizon is relatively flat in the northern sector of the bay and appears to be graded to some lower stand of the sea whereas to the south in deeper water this appearance and this form are lost. It is postulated that the subbottom surface in the northern part of the bay owes its development to a postglacial retreat of the sea and sediment reworking and deposition in mudflat, deltaic, or sub-deltaic environments.

The stratified deposits noted on run I, between marks A and B, and at core locations 138, 139, and 210 are all found immediately below the subbottom horizon and appear to be channel deposits of the Penobscot River. The alignment of these stations is suggestive of this origin. (Similar deposits were also noted at station 152.) To the west of this area but still in the northern sector, the depth of the subbottom horizon increases abruptly and is cut by numerous channels. This area was probably in the direction of the major drainage from the Penobscot River. The channeling of the subbottom layer in the vicinity of stations 202 to 208 is probably an erosional feature developed in fairly shallow water.

The topography on the late-glacial clays may be an original depositional feature, but the coarse material found above, marking the subbottom horizon, requires a lower level of the sea at the time of deposition of the coarser sediments. The extent of the drop in sea level is not known for this area and cannot be precisely determined from the evidence on hand, but it is probably on the order of 50 to 60 feet. The date when this event took place, however, can be defined more closely. The wood obtained in core 211 at a depth of 94 inches below the bottom was dated by the radiocarbon laboratory of the U. S. Geological Survey (sample number W1306). The sample dated $7,390 \pm 500$ years B.P. The Sonoprobe record at this location shows the subbottom horizon at a depth of $7 \frac{1}{2}$ to 8 feet below the bottom. The sample of wood was obtained slightly above or at the depth of this horizon.

In the earlier discussion of the glacial and postglacial history of Maine, the following was stated: the maximum submergence was about 11,800 years B.P., emergence was in progress 7,000 to 8,000 years ago in southwestern Maine, with the maximum emergence, on the order of only about 35 feet, occurring prior to 6,000 years ago. In Boston emergence was 15 to 30 feet and occurred 5,700 years B.P. The date for Penobscot Bay places the emergence farther back in time and was of a greater extent than for any of the places mentioned above. Redfield and Rubin, (1962) have plotted a number of peat and wood sample dates for southern New England, New Hampshire, Maine, and Nova Scotia. Although the majority of the dates are for less than 4,000 years, the few older samples and the trends of the southern New England and Nova Scotia samples indicate that the Penobscot Bay date is compatible with a lower sea level of 50 to 60 feet. It should be noted, however, that the Maine and New Hampshire dates do not provide good agreement with the Penobscot Bay date.

Following this stage of development, the sea readvanced depositing the silty clays found above the subbottom layer. These sediments, as mentioned earlier, are fairly uniform throughout the area except in the northern sector and in the entrance and approaches to the bay.

The main features of the recent sediments of Penobscot Bay are the prevalence of the olive-gray silty clay, lenses and laminae of sandy and silty material, and scattered pebbles found in the fine grained sequences of sediments. The black banding found in many of the cores as well as the hard clay masses and layers found in the cores and the similar material found on the surface of the sediments were also common. Woody material also was found in many of the cores. Nearly all the sediments were poorly sorted.

In the northern sector of the bay, the cores containing coarse material grade upward into finer material. The lenses and laminae of silts and sands, the clay layers and/or balls and fragments, and the pebbly and woody material all suggest shallow water estuarine conditions. The sea level probably rose gradually to its present position or above as indicated by the finer sediments upward from the sub-bottom horizon. Channeling such as that found at the beginning of run I would be expected over tidal flats or very shallow water. At any rate these channels must have been formed at an earlier time and are still preserved. As the sea level rose, the rate of sedimentation decreased to its present condition. Some fine-grained sedimentation is probably taking place in the northern part of the bay and on the tidal flats and marshes. The sediments are being derived largely from the reworking of the bay deposits farther south.

The usefulness of the Sonoprobe as a tool for studying the Pleistocene and Recent geologic history of Penobscot Bay has been demonstrated. The principal advantage of this survey method is to provide continuity and to delineate the morphology of sub-bottom reflections throughout the area under study. Although direct correlation of vertical lithologic changes and Sonoprobe reflections was not always possible, the lack of correlation is not in itself a shortcoming of the instrument. Correlation from core to core was equally difficult. Moreover, the properties of bottom deposits or the magnitude of changes in the physical properties, required to produce a reflection of the acoustic signal are not precisely known. The Sonoprobe does define changes in bottom and subbottom characteristics or type that may be only subtly reflected in the physical properties of the sediments. These changes, so well shown on the Sonoprobe records, may be difficult to distinguish in cores.

The subbottom horizon in Penobscot Bay could not have been defined in depth, lateral extent, or morphology of its reflecting surface by the bottom sampling program alone. In addition, the slump structures, the bedrock basin, and the subbottom glacial deposits are features which could not have been defined so readily and graphically by other means.

The Sonoprobe provides a ready means of determining facies changes , and when combined with a bottom sampling program, it can provide meaningful data over a large area with a minimum of bottom samples . The Sonoprobe was used to a limited degree in the Penobscot Bay survey to determine the type of bottom sampler to use at many of the stations . Used to its fullest extent, the number of bottom samples could have been reduced to a fraction of those obtained .

Members of the survey party were Mr. R. L. Cory, Party Chief, Mr. John R. DePalma, Mr. A. P. Franceschetti, and the author .

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APPENDIX

LIST OF ALL BOTTOM SEDIMENT STATIONS TAKEN DURING 1959 PENOBSCOT BAY SURVEY

BOTTOM SEDIMENT ANALYSIS SHEETS

LIST OF ALL BOTTOM SEDIMENT STATIONS TAKEN
DURING 1959 PENOBSCOT BAY SURVEY

Station No.	Station Position*	Description Presented in Table 2	Sonoprobe Record shown on Figures 15A to 15E	Summary Sheet presented in Appendix
1 to 39	See Appendix	No	No	Yes
40 to 50		Not Incl. in Report		
51		No	Yes	Yes
G		No	No	Yes
H		No	No	Yes
52 to 68		Not Incl. in Report		
69 to 77		No	No	Yes
78 to 89		Not Incl. in Report		
90		No	No	Yes
91		Yes	Yes	Yes
92	43°55'48"N			
	69 05 57 W	Yes	No	No
93-1		Yes	Yes	Yes
93-2		Yes	Yes	Yes
94		Yes	Yes	Yes
95	43 49 57 N			
	69 14 10 W	Yes	Yes	No
96	43 47 28 N			
	69 17 35 W	Yes	No	No
97		Yes	Yes	Yes
98		Yes	Yes	Yes
99	43 47 06 N			
	69 02 27 W	Yes	Yes	No
100		Yes	No	Yes
101		Yes	No	Yes
102		Yes	No	Yes
103		Yes	No	Yes
104		Yes	No	Yes
105		Yes	No	Yes
106		Yes	No	Yes
107		Yes	No	Yes
108		Yes	No	Yes
109	43 56 00 N			
	68 56 06 W	Yes	No	No
110	43 56 03 N			
	68 57 54 W	Yes	No	No
111	43 57 24 N			
	68 57 54 W	Yes	No	No
112		Yes	No	Yes
113-1		Yes	No	Yes
113-2		Yes	Yes	Yes
114		Yes	No	Yes
115		No	No	Yes
116		No	No	Yes

* If position is not given see
Bottom Sediment Analysis Sheet

LIST OF ALL BOTTOM SEDIMENT STATIONS TAKEN
DURING 1959 PENOBSCOT BAY SURVEY (Continued)

Station No.	Station Position*	Description Presented in Table 2	Sonoprobe Record shown on Figures 15A to 15E	Summary Sheet presented in Appendix
117		No	No	Yes
118-1		Yes	No	Yes
118-2		Yes	No	No
119-1		No	No	Yes
119-2		No	No	Yes
120-1		No	No	Yes
120-2		No	No	Yes
121		No sample attempted		
122		Yes	No	Yes
123		Yes	Yes	Yes
124-1		Yes	No	Yes
124-2		Yes	No	Yes
125	44°11'52"N 69 01 59 W	Yes	Yes	No
126-1		Yes	Yes	Yes
126-2		Yes	Yes	Yes
127		Yes	Yes	Yes
128		Yes	No	Yes
129-1		Yes	No	Yes
129-2		Yes	Yes	Yes
130		Yes	Yes	Yes
131		Yes	No	Yes
132		Yes	No	Yes
133		Yes	No	Yes
134-1		No	Yes	No
134-2		Yes	Yes	Yes
135-1		Yes	No	Yes
135-2		Yes	No	Yes
136		Yes	Yes	Yes
137-1		Yes	No	Yes
137-2		Yes	Yes	Yes
138		Yes	Yes	Yes
139		Yes	Yes	Yes
140		Yes	Yes	Yes
141		Yes	Yes	Yes
142		Yes	No	Yes
143	44 16 09 N 68 49 58 W	Not analyzed in laboratory		
144		Yes	No	Yes
145		Yes	No	Yes
146		Yes	No	Yes
147		No	No	Yes
148		Yes	Yes	Yes
149		Yes	No	Yes

* If position is not given see
Bottom Sediment Analysis Sheet

LIST OF ALL BOTTOM SEDIMENT STATIONS TAKEN
DURING 1959 PENOBSCOT BAY SURVEY (Continued)

Station No.	Station Position*	Description Presented in Table 2	Sonoprobe Record shown on Figures 15A to 15E	Summary Sheet presented in Appendix
150		Yes	No	Yes
151		Yes	No	Yes
152		Yes	Yes	Yes
153		Yes	No	Yes
154		Yes	Yes	Yes
155	44°13'17"N 68 57 55 W	Yes	Yes	No
156		Yes	No	Yes
157		Yes	No	Yes
158		Yes	No	Yes
159		No	No	Yes
160		Yes	No	Yes
161		Yes	No	Yes
162	44 04 49 N 68 57 56 W	Yes	No	No
163		Yes	Yes	Yes
164	44 01 45 N 68 57 59 W	Yes	No	No
165	44 00 13 N 68 57 56 W	Yes	No	No
166		Yes	Yes	Yes
167	43 59 13 N 68 55 32 W	Yes	No	No
168	43 58 52 N 68 54 11 W	Yes	No	No
169		Yes	No	Yes
170		Yes	No	Yes
171		Yes	No	Yes
172	43 57 16 N 68 50 04 W	Yes	No	No
173	43 57 21 N 68 52 03 W	Yes	Yes	No
174		Yes	No	Yes
175		Yes	No	Yes
176	43 57 25 N 68 56 02 W	Yes	No	No
177		Yes	No	Yes
178		No	No	Yes
179		Yes	No	Yes
180		Yes	No	Yes
181		Yes	No	Yes
182		Yes	No	Yes
183		Yes	No	Yes
184		Yes	No	Yes

* If position is not given see
Bottom Sediment Analysis Sheet

LIST OF ALL BOTTOM SEDIMENT STATIONS TAKEN
DURING 1959 PENOBSCOT BAY SURVEY (Continued)

Station No.	Station, Position*	Description Presented in Table 2	Sonoprobe Record shown on Figures 15A to 15E	Summary Sheet presented in Appendix
185		Yes	Yes	Yes
186		Yes	No	Yes
187		Yes	No	Yes
188		Yes	No	Yes
189		Yes	No	Yes
190		Yes	Yes	Yes
191		Yes	No	Yes
192		Yes	Yes	Yes
193		Yes	No	Yes
194		Yes	No	Yes
195		Yes	No	Yes
196		Yes	No	Yes
197		Yes	No	Yes
198		Yes	No	Yes
199		Yes	Yes	Yes
200		Yes	Yes	Yes
201		Yes	Yes	Yes
202		Yes	No	Yes
203		Yes	Yes	Yes
204		Yes	Yes	Yes
205		Yes	Yes	Yes
206		Yes	Yes	Yes
207		Yes	Yes	Yes
208		Yes	Yes	Yes
209		Yes	Yes	Yes
210		Yes	Yes	Yes
211		Yes	Yes	Yes
212		Yes	No	Yes
213		Yes	No	Yes
214		Yes	Yes	Yes
215		Yes	No	Yes
216		Yes	No	Yes
217		Yes	No	Yes

* If position is not given see
Bottom Sediment Analysis Sheet

BOTTOM SEDIMENT ANALYSIS SHEETS

Results of bottom sediment analysis performed by the U.S. Naval Oceanographic Office are recorded on sediment analysis sheets.

The following items are descriptions of the terms employed on the sediment analysis sheets:

1. Sample Number. This number has 3 parts: 66 (the area)
1 (the station number)
1 or 2 (the sample number at the station)
2. Latitude. Expressed in degrees, minutes, and seconds.
3. Longitude. Expressed in degrees, minutes, and seconds.
4. Date. Day (GMT), month, and year.
5. Sampler Type. Identified by name of device employed. Shown only for core.
6. Water Depth (fm.). The uncorrected sonic sounding recorded in fathoms.
7. Core Length (in.). Recorded in inches as observed in the laboratory. This information is not given when a grab sampler was employed. Shown only for cores.
8. Core Penetration (in.). Recorded in inches as observed in the field. This information is not given when a grab sampler was employed. Shown only for cores.
9. Laboratory Number. A reference number assigned to a fraction of a sample retained by the Laboratory.
10. Subsample Depth in Core (in.). Interval of the subsample as measured from the top of the core. Not applicable for a grab sample. Shown only for cores.
11. Color. Based on the Geological Society of America Rock-Color Chart. For those samples where color was not determined in the field, the sample was moistened in the laboratory for a color determination.
12. Odor. A qualitative description of any noticeable odors.
13. Wet Density (lbs/ft³). Not determined.
14. Rigidense (mm). Not determined.
15. Maximum Porosity (%). Not determined.
16. Minimum Porosity (%). Not determined.
17. Water Content (%). Not determined.
18. Organic Carbon Content (%). Not determined.

19. Size Analysis and Statistical Measures. Sample size fraction values are based on dry weight and given in phi (ϕ) units to the nearest whole percent. An American Instrument Company sieving machine and U. S. standard sieves were used for determining sand and larger size fractions ($> 1/16$ mm). The pipette method, based on Stokes Law (for computing settling rates of spherical particles), was used to determine silt size ($1/16$ to $1/1256$ mm) and clay size particles ($1/1256$ to $1/4096$ mm). Any colloidal material ($< 1/4096$ mm) was included with the clay.

QD ϕ - (phi quartile deviation). Is that statistical parameter which is a measure of one half of the spread of the quartiles and is expressed in phi units with the given value computed from the formula:

$$QD\phi = \frac{Q_{3\phi} - Q_{1\phi}}{2}$$

Sorting referred to in the text was determined in accordance with the relationship between QD ϕ and Trask's Sorting Coefficient (So)*

Sk ϕ - (phi quartile skewness). Is that statistical parameter which is a measure of half the sum of the first and third quartile values less the median and is expressed in phi units with the given value computed from the formula:

$$Sk\phi = \frac{Q_{1\phi} + Q_{3\phi}}{2} - Md\phi$$

Md ϕ - (phi median). Is the middlemost member of the distribution curve above which 50 percent of the diameters in the distribution are larger and below which 50 percent of the diameters are smaller and is expressed in phi units.

* Reference to Sorting

Krumbein, W. C., and F. J. Pettijohn, 1938, *Manual of sedimentary petrography*. Appleton-Century-Croft, New York, 549 pp.

Page 235, Fig. 110. Conversion chart for So and QD ϕ . $\log_2 So = QD\phi$

QD ϕ < 1.32 = well sorted
 1.58 = normally sorted sediment
 > 2.18 = poorly sorted

The following table is presented for the conversion of phi units to millimeters: $\phi = \log_2 \text{diameter (millimeters)}$

Phi (ϕ)	Millimeters	Geological Classification
-2	4.0	
-1	2.0	Granule
0	1.0	
1	0.50	
2	0.25	
3	0.125	
4	0.0625	Sand
5	0.0313	
6	0.0156	
7	0.0078	
8	0.0039	
9	0.00195	Silt
>9	-----	Clay

20. Subsample Dry Weight (gm.). Total dry weight of the subsample.
21. Sphericity (avg.). Not determined.
22. Plasticity. A qualitative description of the sediments plastic characteristics at the time the sample was analyzed in the laboratory.
23. Shell Con. A visual estimate of the percentage of sample that is shell.
- 24, 25, and 26. Dominant, Secondary, and Other Minerals (%). Not determined.
27. Remarks.

1. SAMPLE NUMBER	64-1
2. LATITUDE	44° 07' 00" N
3. LONGITUDE	69° 00' 18" W
4. DATE (Day, month, year)	5 August 1969
5. LABORATORY NUMBERS	4788
6. WATER DEPTH (m.)	38.3
11. COLOR	Olive Gray 5441

12. DOOR	
13. NET DENSITY (lb./ft ³)	
14. RIGIDITY (cm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	0 _φ
b. -2 _φ to -1 _φ (%)	3 _φ
c. -1 _φ to 0 _φ (%)	M ₆₅ 6.9
d. 0 _φ to 1 _φ (%)	0 _φ 4.80
e. 1 _φ to 2 _φ (%)	0 _φ
f. 2 _φ to 3 _φ (%)	2
g. 3 _φ to 4 _φ (%)	12
h. 4 _φ to 5 _φ (%)	26
i. 5 _φ to 6 _φ (%)	25
j. > 6 _φ (%)	34

20. SUBSAMPLE DRY WEIGHT (gm)	14.70
21. SPECIFIC (swg.)	
22. SHORE-TESTER (cm) Plasticity	Med.
23. SHORE-TESTER (cm) Shell Gm.	< 1%
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab

The sample was composed of silt and clay with some sand.
* Contained dark streaks

Sediment Type Clayey Silt

1. SAMPLE NUMBER	66-24
2. LATITUDE	44° 08' 12" N
3. LONGITUDE	69° 00' 18" W
4. DATE (Day, month, year)	5 August 1969
5. LABORATORY NUMBERS	4789
6. WATER DEPTH (m.)	35.8
11. COLOR	Olive Gray 5441

12. DOOR	
13. NET DENSITY (lb./ft ³)	
14. RIGIDITY (cm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	0 _φ
b. -2 _φ to -1 _φ (%)	3 _φ
c. -1 _φ to 0 _φ (%)	M ₆₅ 8.12
d. 0 _φ to 1 _φ (%)	0 _φ 6.00
e. 1 _φ to 2 _φ (%)	0 _φ
f. 2 _φ to 3 _φ (%)	2
g. 3 _φ to 4 _φ (%)	22
h. 4 _φ to 5 _φ (%)	34
i. 5 _φ to 6 _φ (%)	41

20. SUBSAMPLE DRY WEIGHT (gm)	17.00
21. SPECIFIC (swg.)	
22. SHORE-TESTER (cm) Plasticity	Med.
23. SHORE-TESTER (cm) Shell Gm.	< 1%
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab

The sample was composed of silt and clay

Sediment Type Clayey Silt

1. SAMPLE NUMBER	66-3-1
2. LATITUDE	44° 09' 16" N
3. LONGITUDE	69° 00' 18" W
4. DATE (Day, month, year)	5 August 1969
5. LABORATORY NUMBERS	4790
6. WATER DEPTH (m.)	31.7
11. COLOR	Olive Gray 5441

12. DOOR	
13. NET DENSITY (lb./ft ³)	
14. RIGIDITY (cm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	0 _φ
b. -2 _φ to -1 _φ (%)	3 _φ
c. -1 _φ to 0 _φ (%)	M ₆₅ 8.65
d. 0 _φ to 1 _φ (%)	0 _φ 6.56
e. 1 _φ to 2 _φ (%)	2
f. 2 _φ to 3 _φ (%)	16
g. 3 _φ to 4 _φ (%)	37
h. 4 _φ to 5 _φ (%)	44

20. SUBSAMPLE DRY WEIGHT (gm)	13.50
21. SPECIFIC (swg.)	
22. SHORE-TESTER (cm) Plasticity	Med.
23. SHORE-TESTER (cm) Shell Gm.	< 1%
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab

The sample was composed of silt and clay.
* Mixed with Black (N)

Sediment Type Clayey Silt

1. SAMPLE NUMBER	66-4-1
2. LATITUDE	44° 10' 18" N
3. LONGITUDE	69° 00' 18" W
4. DATE (Day, month, year)	5 August 1969
5. LABORATORY NUMBERS	4791
6. WATER DEPTH (m.)	31.7
11. COLOR	Olive Gray 5441

12. DOOR	
13. NET DENSITY (lb./ft ³)	
14. RIGIDITY (cm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	0 _φ
b. -2 _φ to -1 _φ (%)	3 _φ
c. -1 _φ to 0 _φ (%)	M ₆₅ 8.33
d. 0 _φ to 1 _φ (%)	0 _φ 6.60
e. 1 _φ to 2 _φ (%)	2
f. 2 _φ to 3 _φ (%)	14
g. 3 _φ to 4 _φ (%)	40
h. 4 _φ to 5 _φ (%)	45

20. SUBSAMPLE DRY WEIGHT (gm)	17.85
21. SPECIFIC (swg.)	
22. SHORE-TESTER (cm) Plasticity	Med.
23. SHORE-TESTER (cm) Shell Gm.	< 1%
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab

The sample was composed of silt and clay.

Sediment Type Clayey Silt

1. SAMPLE NUMBER	66-5-1
2. LATITUDE	44° 11' 06" N
3. LONGITUDE	69° 00' 18" W
4. DATE (Day, month, year)	5 August 1959
5. LABORATORY NUMBERS	4792

1. SAMPLE NUMBER	66-6-1
2. LATITUDE	44° 12' 12" N
3. LONGITUDE	69° 00' 18" W
4. DATE (Day, month, year)	5 August 1959
5. LABORATORY NUMBERS	4793

1. SAMPLE NUMBER	66-7-1
2. LATITUDE	44° 13' 13" N
3. LONGITUDE	69° 00' 18" W
4. DATE (Day, month, year)	5 August 1959
5. LABORATORY NUMBERS	4794

1. SAMPLE NUMBER	66-8-1
2. LATITUDE	44° 14' 06" N
3. LONGITUDE	68° 59' 36" W
4. DATE (Day, month, year)	5 August 1959
5. LABORATORY NUMBERS	4795

11. COLOR	Olive Gray 5Y4/1
12. DOOR	
13. MET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

11. COLOR	Olive Gray 5Y4/1
12. DOOR	
13. MET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

11. COLOR	Olive Gray 5Y4/1
12. DOOR	
13. MET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

11. COLOR	Olive Gray 5Y4/1
12. DOOR	
13. MET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	0 _φ
b. -2 _φ to -1 _φ (%)	5 _φ
c. -1 _φ to 0 _φ (%)	M _φ 8.65
d. 0 _φ to 1 _φ (%)	0 _φ 6.84
e. 1 _φ to 2 _φ (%)	0 _φ
f. 2 _φ to 3 _φ (%)	1
g. 3 _φ to 4 _φ (%)	
h. 4 _φ to 6 _φ (%)	12
i. 6 _φ to 8 _φ (%)	40
j. > 8 _φ (%)	47

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	0 _φ
b. -2 _φ to -1 _φ (%)	5 _φ
c. -1 _φ to 0 _φ (%)	M _φ 8.45
d. 0 _φ to 1 _φ (%)	0 _φ 6.72
e. 1 _φ to 2 _φ (%)	0 _φ
f. 2 _φ to 3 _φ (%)	1
g. 3 _φ to 4 _φ (%)	
h. 4 _φ to 6 _φ (%)	13
i. 6 _φ to 8 _φ (%)	41
j. > 8 _φ (%)	45

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	0 _φ
b. -2 _φ to -1 _φ (%)	5 _φ
c. -1 _φ to 0 _φ (%)	M _φ 8.67
d. 0 _φ to 1 _φ (%)	0 _φ 6.82
e. 1 _φ to 2 _φ (%)	0 _φ
f. 2 _φ to 3 _φ (%)	2
g. 3 _φ to 4 _φ (%)	
h. 4 _φ to 6 _φ (%)	11
i. 6 _φ to 8 _φ (%)	40
j. > 8 _φ (%)	47

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	0 _φ
b. -2 _φ to -1 _φ (%)	5 _φ
c. -1 _φ to 0 _φ (%)	M _φ 8.59
d. 0 _φ to 1 _φ (%)	0 _φ 6.89
e. 1 _φ to 2 _φ (%)	1
f. 2 _φ to 3 _φ (%)	
g. 3 _φ to 4 _φ (%)	
h. 4 _φ to 6 _φ (%)	11
i. 6 _φ to 8 _φ (%)	42
j. > 8 _φ (%)	45

20. SUBSAMPLE DRY WEIGHT (gm)	15.71
21. SPECIFICITY (avg.)	
22. MINERALS (avg.) Plasticity	Med
23. SPHERE-TEXTURE (avg.) Shell Gm.	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

20. SUBSAMPLE DRY WEIGHT (gm)	14.45
21. SPECIFICITY (avg.)	
22. MINERALS (avg.) Plasticity	Med
23. SPHERE-TEXTURE (avg.) Shell Gm.	< 1/9
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

20. SUBSAMPLE DRY WEIGHT (gm)	14.11
21. SPECIFICITY (avg.)	
22. MINERALS (avg.) Plasticity	High
23. SPHERE-TEXTURE (avg.) Shell Gm.	< 1/9
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

20. SUBSAMPLE DRY WEIGHT (gm)	17.46
21. SPECIFICITY (avg.)	
22. MINERALS (avg.) Plasticity	Med
23. SPHERE-TEXTURE (avg.) Shell Gm.	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab

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27. REMARKS: Items 11-26 determined in the lab

27. REMARKS: Items 11-26 determined in the lab

The sample was composed of silt and clay. The sample was composed of silt and clay. The sample was composed of silt and clay. The sample was composed of silt and clay.

Sediment Type Clayey Silt

Sediment Type Clayey Silt

Sediment Type Clayey Silt

Sediment Type Clayey Silt

1. SAMPLE NUMBER	66-9-1
2. LATITUDE	44° 15' 00" N
3. LONGITUDE	68° 59' 00" W
4. DATE (Day, month, year)	5 August 1969
5. LABORATORY NUMBERS	4796
6. WATER DEPTH (m.)	200
11. COLOR	Olive Gray 5741

1. SAMPLE NUMBER	66-10-1
2. LATITUDE	44° 15' 54" N
3. LONGITUDE	68° 58' 24" W
4. DATE (Day, month, year)	5 August 1969
5. LABORATORY NUMBERS	4797
6. WATER DEPTH (m.)	217
11. COLOR	Olive Gray 5741

1. SAMPLE NUMBER	66-11-1
2. LATITUDE	44° 16' 42" N
3. LONGITUDE	68° 57' 18" W
4. DATE (Day, month, year)	5 August 1969
5. LABORATORY NUMBERS	4798
6. WATER DEPTH (m.)	226
11. COLOR	Olive Gray 5741

1. SAMPLE NUMBER	66-12-1
2. LATITUDE	44° 15' 12" N
3. LONGITUDE	68° 56' 48" W
4. DATE (Day, month, year)	5 August 1969
5. LABORATORY NUMBERS	4799
6. WATER DEPTH (m.)	232
11. COLOR	Olive Gray 5741

12. DGR	
13. NET DENSITY (lb./ft ³)	
14. RIGIDITY (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	

a. < 2 ₅ (s)	3	3%
b. < 2 ₅ to < 1 ₅ (s)	3	3%
c. < 1 ₅ to 0 ₅ (s)	5	5%
d. 0 ₅ to 1 ₅ (s)	6	6%
e. 1 ₅ to 2 ₅ (s)	8	8%
f. 2 ₅ to 3 ₅ (s)	9	
g. 3 ₅ to 4 ₅ (s)	6	
h. 4 ₅ to 5 ₅ (s)	8	
i. 5 ₅ to 6 ₅ (s)	23	
j. > 6 ₅ (s)	28	
20. SUBSAMPLE DRY WEIGHT (gm)	19.91	
21. SPECIFIC GRAVITY		
22. MINERALOGY (text)	Med	
23. MINERALOGY (text) Shell Ca.	< 1%	
24. DOMINANT MINERAL (%)		
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		
27. REMARKS: Items 11-26 determined in the lab	The sample was composed of sand with silt, clay and some pebbles.	

12. DGR	
13. NET DENSITY (lb./ft ³)	
14. RIGIDITY (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	

a. < 2 ₅ (s)	3	3%
b. < 2 ₅ to < 1 ₅ (s)	3	3%
c. < 1 ₅ to 0 ₅ (s)	5	5%
d. 0 ₅ to 1 ₅ (s)	6	6%
e. 1 ₅ to 2 ₅ (s)	8	8%
f. 2 ₅ to 3 ₅ (s)	9	
g. 3 ₅ to 4 ₅ (s)	6	
h. 4 ₅ to 5 ₅ (s)	8	
i. 5 ₅ to 6 ₅ (s)	23	
j. > 6 ₅ (s)	28	
20. SUBSAMPLE DRY WEIGHT (gm)	19.91	
21. SPECIFIC GRAVITY		
22. MINERALOGY (text)	Med	
23. MINERALOGY (text) Shell Ca.	< 1%	
24. DOMINANT MINERAL (%)		
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		
27. REMARKS: Items 11-26 determined in the lab	The sample was composed of sand with silt, clay and some pebbles.	

a. < 2 ₅ (s)	3	3%
b. < 2 ₅ to < 1 ₅ (s)	3	3%
c. < 1 ₅ to 0 ₅ (s)	5	5%
d. 0 ₅ to 1 ₅ (s)	6	6%
e. 1 ₅ to 2 ₅ (s)	8	8%
f. 2 ₅ to 3 ₅ (s)	9	
g. 3 ₅ to 4 ₅ (s)	6	
h. 4 ₅ to 5 ₅ (s)	8	
i. 5 ₅ to 6 ₅ (s)	23	
j. > 6 ₅ (s)	28	
20. SUBSAMPLE DRY WEIGHT (gm)	19.91	
21. SPECIFIC GRAVITY		
22. MINERALOGY (text)	Med	
23. MINERALOGY (text) Shell Ca.	< 1%	
24. DOMINANT MINERAL (%)		
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		
27. REMARKS: Items 11-26 determined in the lab	The sample was composed of sand with silt, clay and some pebbles.	

a. < 2 ₅ (s)	10	10%
b. < 2 ₅ to < 1 ₅ (s)	4	4%
c. < 1 ₅ to 0 ₅ (s)	4	4%
d. 0 ₅ to 1 ₅ (s)	5	5%
e. 1 ₅ to 2 ₅ (s)	6	6%
f. 2 ₅ to 3 ₅ (s)	12	
g. 3 ₅ to 4 ₅ (s)	13	
h. 4 ₅ to 5 ₅ (s)	11	
i. 5 ₅ to 6 ₅ (s)	15	
j. > 6 ₅ (s)	20	
20. SUBSAMPLE DRY WEIGHT (gm)	29.81	
21. SPECIFIC GRAVITY		
22. MINERALOGY (text)	Med	
23. MINERALOGY (text) Shell Ca.	< 1%	
24. DOMINANT MINERAL (%)		
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		
27. REMARKS: Items 11-26 determined in the lab	The sample was composed of sand and pebbles with silt and clay.	

a. < 2 ₅ (s)	2	2%
b. < 2 ₅ to < 1 ₅ (s)	1	1%
c. < 1 ₅ to 0 ₅ (s)	2	2%
d. 0 ₅ to 1 ₅ (s)	3	3%
e. 1 ₅ to 2 ₅ (s)	6	6%
f. 2 ₅ to 3 ₅ (s)	18	
g. 3 ₅ to 4 ₅ (s)	15	
h. 4 ₅ to 5 ₅ (s)	15	
i. 5 ₅ to 6 ₅ (s)	18	
j. > 6 ₅ (s)	21	
20. SUBSAMPLE DRY WEIGHT (gm)	28.70	
21. SPECIFIC GRAVITY		
22. MINERALOGY (text)	Med	
23. MINERALOGY (text) Shell Ca.	0	
24. DOMINANT MINERAL (%)		
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		
27. REMARKS: Items 11-26 determined in the lab	The sample was composed of sand with silt, clay and some pebbles.	

a. < 2 ₅ (s)		0%
b. < 2 ₅ to < 1 ₅ (s)		0%
c. < 1 ₅ to 0 ₅ (s)		1
d. 0 ₅ to 1 ₅ (s)		1
e. 1 ₅ to 2 ₅ (s)		3
f. 2 ₅ to 3 ₅ (s)		8
g. 3 ₅ to 4 ₅ (s)		18
h. 4 ₅ to 5 ₅ (s)		19
i. 5 ₅ to 6 ₅ (s)		24
j. > 6 ₅ (s)		27
20. SUBSAMPLE DRY WEIGHT (gm)		19.4
21. SPECIFIC GRAVITY		
22. MINERALOGY (text)	Med	
23. MINERALOGY (text) Shell Ca.	< 1%	
24. DOMINANT MINERAL (%)		
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		
27. REMARKS: Items 11-26 determined in the lab	The sample was composed of sand, silt and clay	

12. DGR	
13. NET DENSITY (lb./ft ³)	
14. RIGIDITY (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	

a. < 2 ₅ (s)	3	3%
b. < 2 ₅ to < 1 ₅ (s)	3	3%
c. < 1 ₅ to 0 ₅ (s)	5	5%
d. 0 ₅ to 1 ₅ (s)	6	6%
e. 1 ₅ to 2 ₅ (s)	8	8%
f. 2 ₅ to 3 ₅ (s)	9	
g. 3 ₅ to 4 ₅ (s)	6	
h. 4 ₅ to 5 ₅ (s)	8	
i. 5 ₅ to 6 ₅ (s)	23	
j. > 6 ₅ (s)	28	
20. SUBSAMPLE DRY WEIGHT (gm)	19.91	
21. SPECIFIC GRAVITY		
22. MINERALOGY (text)	Med	
23. MINERALOGY (text) Shell Ca.	< 1%	
24. DOMINANT MINERAL (%)		
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		
27. REMARKS: Items 11-26 determined in the lab	The sample was composed of sand with silt, clay and some pebbles.	

a. < 2 ₅ (s)	2	2%
b. < 2 ₅ to < 1 ₅ (s)	1	1%
c. < 1 ₅ to 0 ₅ (s)	2	2%
d. 0 ₅ to 1 ₅ (s)	3	3%
e. 1 ₅ to 2 ₅ (s)	6	6%
f. 2 ₅ to 3 ₅ (s)	18	
g. 3 ₅ to 4 ₅ (s)	15	
h. 4 ₅ to 5 ₅ (s)	15	
i. 5 ₅ to 6 ₅ (s)	18	
j. > 6 ₅ (s)	21	
20. SUBSAMPLE DRY WEIGHT (gm)	28.70	
21. SPECIFIC GRAVITY		
22. MINERALOGY (text)	Med	
23. MINERALOGY (text) Shell Ca.	0	
24. DOMINANT MINERAL (%)		
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		
27. REMARKS: Items 11-26 determined in the lab	The sample was composed of sand with silt, clay and some pebbles.	

a. < 2 ₅ (s)		0%
b. < 2 ₅ to < 1 ₅ (s)		0%
c. < 1 ₅ to 0 ₅ (s)		1
d. 0 ₅ to 1 ₅ (s)		1
e. 1 ₅ to 2 ₅ (s)		3
f. 2 ₅ to 3 ₅ (s)		8
g. 3 ₅ to 4 ₅ (s)		18
h. 4 ₅ to 5 ₅ (s)		19
i. 5 ₅ to 6 ₅ (s)		24
j. > 6 ₅ (s)		27
20. SUBSAMPLE DRY WEIGHT (gm)		19.4
21. SPECIFIC GRAVITY		
22. MINERALOGY (text)	Med	
23. MINERALOGY (text) Shell Ca.	< 1%	
24. DOMINANT MINERAL (%)		
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		
27. REMARKS: Items 11-26 determined in the lab	The sample was composed of sand, silt and clay	

12. DGR	
13. NET DENSITY (lb./ft ³)	
14. RIGIDITY (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	

a. < 2 ₅ (s)	3	3%
b. < 2 ₅ to < 1 ₅ (s)	3	3%
c. < 1 ₅ to 0 ₅ (s)	5	5%
d. 0 ₅ to 1 ₅ (s)	6	6%
e. 1 ₅ to 2 ₅ (s)	8	8%
f. 2 ₅ to 3 ₅ (s)	9	
g. 3 ₅ to 4 ₅ (s)	6	
h. 4 ₅ to 5 ₅ (s)	8	
i. 5 ₅ to 6 ₅ (s)	23	
j. > 6 ₅ (s)	28	
20. SUBSAMPLE DRY WEIGHT (gm)	19.91	
21. SPECIFIC GRAVITY		
22. MINERALOGY (text)	Med	
23. MINERALOGY (text) Shell Ca.	< 1%	
24. DOMINANT MINERAL (%)		
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		
27. REMARKS: Items 11-26 determined in the lab	The sample was composed of sand with silt, clay and some pebbles.	

a. < 2 ₅ (s)	2	2%
b. < 2 ₅ to < 1 ₅ (s)	1	1%
c. < 1 ₅ to 0 ₅ (s)	2	2%
d. 0 ₅ to 1 ₅ (s)	3	3%
e. 1 ₅ to 2 ₅ (s)	6	6%
f. 2 ₅ to 3 ₅ (s)	18	
g. 3 ₅ to 4 ₅ (s)	15	
h. 4 ₅ to 5 ₅ (s)	15	
i. 5 ₅ to 6 ₅ (s)	18	
j. > 6 ₅ (s)	21	
20. SUBSAMPLE DRY WEIGHT (gm)	28.70	
21. SPECIFIC GRAVITY		
22. MINERALOGY (text)	Med	
23. MINERALOGY (text) Shell Ca.	0	
24. DOMINANT MINERAL (%)		
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		
27. REMARKS: Items 11-26 determined in the lab	The sample was composed of sand with silt, clay and some pebbles.	

a. < 2 ₅ (s)		0%
b. < 2 ₅ to < 1 ₅ (s)		0%
c. < 1 ₅ to 0 ₅ (s)		1
d. 0 ₅ to 1 ₅ (s)		1
e. 1 ₅ to 2 ₅ (s)		3
f. 2 ₅ to 3 ₅ (s)		8
g. 3 ₅ to 4 ₅ (s)		18
h. 4 ₅ to 5 ₅ (s)		19
i. 5 ₅ to 6 ₅ (s)		24
j. > 6 ₅ (s)		27
20. SUBSAMPLE DRY WEIGHT (gm)		19.4
21. SPECIFIC GRAVITY		
22. MINERALOGY (text)	Med	
23. MINERALOGY (text) Shell Ca.	< 1%	
24. DOMINANT MINERAL (%)		
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		
27. REMARKS: Items 11-26 determined in the lab	The sample was composed of sand, silt and clay	

Sediment Type: Sandy Mud

Sediment Type: Sandy Mud

Sediment Type: Sandy Mud

Sediment Type: Silty Mud

1. SAMPLE NUMBER	66-13-1
2. LATITUDE	44° 19' 18" N
3. LONGITUDE	68° 58' 42" W
4. DATE (Day, month, year)	5 August 1959
5. LABORATORY NUMBERS	4800
6. WATER DEPTH (m.)	34.2

11. COLOR	Olive Gray 5Y4/1
12. DOOR	slightly foul
13. NET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < -2 _φ (%)	0 _φ
b. -2 _φ to -1 _φ (%)	Sk _φ
c. -1 _φ to 0 _φ (%)	M _φ 7.97
d. 0 _φ to 1 _φ (%)	0 _φ 5.30
e. 1 _φ to 2 _φ (%)	0 _φ
f. 2 _φ to 3 _φ (%)	1
g. 3 _φ to 4 _φ (%)	6
h. 4 _φ to 6 _φ (%)	18
i. 6 _φ to 8 _φ (%)	35
j. > 8 _φ (%)	38
20. SUBSAMPLE DRY WEIGHT (gm)	13.95

21. SPECIFICITY (swp.)	
22. MINIMUM-TENSILE PLASTICITY	Low
23. SUBSATE-TENSILE (mm) Shell/Gm.	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab
The sample was composed of silt and
clay with some sand.

Sediment Type	Clayey Silt
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1. SAMPLE NUMBER	66-14-1
2. LATITUDE	44° 20' 18" N
3. LONGITUDE	58° 56' 24" W
4. DATE (Day, month, year)	5 August 1959
5. LABORATORY NUMBERS	4801
6. WATER DEPTH (m.)	32.5

11. COLOR	Olive Gray 5Y4/1
12. DOOR	
13. NET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < -2 _φ (%)	0 _φ
b. -2 _φ to -1 _φ (%)	Sk _φ
c. -1 _φ to 0 _φ (%)	M _φ 7.79
d. 0 _φ to 1 _φ (%)	0 _φ 6.06
e. 1 _φ to 2 _φ (%)	1
f. 2 _φ to 3 _φ (%)	3
g. 3 _φ to 4 _φ (%)	19
h. 4 _φ to 6 _φ (%)	35
i. 6 _φ to 8 _φ (%)	41
j. > 8 _φ (%)	15.58
20. SUBSAMPLE DRY WEIGHT (gm)	

21. SPECIFICITY (swp.)	
22. MINIMUM-TENSILE PLASTICITY	Low
23. SUBSATE-TENSILE (mm) Shell/Gm.	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab
The sample was composed of silt and
clay with some sand.

Sediment Type	Clayey Silt
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1. SAMPLE NUMBER	66-15-1
2. LATITUDE	44° 21' 30" N
3. LONGITUDE	58° 56' 06" W
4. DATE (Day, month, year)	5 August 1959
5. LABORATORY NUMBERS	4802
6. WATER DEPTH (m.)	26.7

11. COLOR	Olive Gray 5Y4/1
12. DOOR	
13. NET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < -2 _φ (%)	0 _φ
b. -2 _φ to -1 _φ (%)	Sk _φ
c. -1 _φ to 0 _φ (%)	M _φ 8.57
d. 0 _φ to 1 _φ (%)	0 _φ 6.60
e. 1 _φ to 2 _φ (%)	2
f. 2 _φ to 3 _φ (%)	16
g. 3 _φ to 4 _φ (%)	38
h. 4 _φ to 6 _φ (%)	44
i. 6 _φ to 8 _φ (%)	12.76
j. > 8 _φ (%)	
20. SUBSAMPLE DRY WEIGHT (gm)	

21. SPECIFICITY (swp.)	
22. MINIMUM-TENSILE PLASTICITY	Med
23. SUBSATE-TENSILE (mm) Shell/Gm.	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab
The sample was composed of silt and
clay.

Sediment Type	Clayey Silt
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1. SAMPLE NUMBER	66-16-1
2. LATITUDE	44° 22' 42" N
3. LONGITUDE	68° 55' 54" W
4. DATE (Day, month, year)	5 August 1959
5. LABORATORY NUMBERS	4803
6. WATER DEPTH (m.)	21.8

11. COLOR	Olive Gray 5Y4/1
12. DOOR	slightly foul
13. NET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < -2 _φ (%)	0 _φ
b. -2 _φ to -1 _φ (%)	Sk _φ
c. -1 _φ to 0 _φ (%)	M _φ 8.16
d. 0 _φ to 1 _φ (%)	0 _φ 7.29
e. 1 _φ to 2 _φ (%)	2
f. 2 _φ to 3 _φ (%)	9
g. 3 _φ to 4 _φ (%)	44
h. 4 _φ to 6 _φ (%)	45
i. 6 _φ to 8 _φ (%)	12.09
j. > 8 _φ (%)	
20. SUBSAMPLE DRY WEIGHT (gm)	

21. SPECIFICITY (swp.)	
22. MINIMUM-TENSILE PLASTICITY	Low
23. SUBSATE-TENSILE (mm) Shell/Gm.	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab

Sediment Type	Clayey Silt
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1. SAMPLE NUMBER	66-17-1
2. LATITUDE	41° 23' 54" N
3. LONGITUDE	68° 53' 24" W
4. DATE (Day, month, year)	5 August 1959
5. LABORATORY NUMBERS	4804
6. WATER DEPTH (m.)	15.8
11. COLOR	Olive Gray 5441
12. ODR	slightly foul
13. NET DENSITY (lb./ft ³)	
14. RIGIDNESS (cm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	OD _φ
b. -2 _φ to -1 _φ (%)	SE _φ
c. -1 _φ to 0 _φ (%)	ME _φ 874
d. 0 _φ to 1 _φ (%)	0.1 720
e. 1 _φ to 2 _φ (%)	0.2
f. 2 _φ to 3 _φ (%)	3
g. 3 _φ to 4 _φ (%)	
h. 4 _φ to 6 _φ (%)	9
i. 6 _φ to 8 _φ (%)	43
j. > 8 _φ (%)	45
20. SUBSAMPLE DRY WEIGHT (gm)	1056
21. SPECIFICITY (spg.)	
22. MINIMUM-TENSILE PLASTICITY	Low
23. SHEAR-TENSILE-TENSILE (cm. 1/2 in. 1/2 in.)	0
24. DIAMANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab.	

Sediment Type Clayey Silt

1. SAMPLE NUMBER	66-18-1
2. LATITUDE	41° 25' 06" N
3. LONGITUDE	68° 54' 54" W
4. DATE (Day, month, year)	5 August 1959
5. LABORATORY NUMBERS	4805
6. WATER DEPTH (m.)	10
11. COLOR	Olive Gray 5441
12. ODR	
13. NET DENSITY (lb./ft ³)	
14. RIGIDNESS (cm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	OD _φ
b. -2 _φ to -1 _φ (%)	SE _φ
c. -1 _φ to 0 _φ (%)	ME _φ 874
d. 0 _φ to 1 _φ (%)	0.1 733
e. 1 _φ to 2 _φ (%)	0.2
f. 2 _φ to 3 _φ (%)	2
g. 3 _φ to 4 _φ (%)	
h. 4 _φ to 6 _φ (%)	8
i. 6 _φ to 8 _φ (%)	45
j. > 8 _φ (%)	45
20. SUBSAMPLE DRY WEIGHT (gm)	1285
21. SPECIFICITY (spg.)	
22. MINIMUM-TENSILE PLASTICITY	Low
23. SHEAR-TENSILE-TENSILE (cm. 1/2 in. 1/2 in.)	0
24. DIAMANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab.	

Sediment Type Clayey Silt

1. SAMPLE NUMBER	66-19-1
2. LATITUDE	41° 24' 30" N
3. LONGITUDE	68° 53' 48" W
4. DATE (Day, month, year)	5 August 1959
5. LABORATORY NUMBERS	4806
6. WATER DEPTH (m.)	10.8
11. COLOR	Olive Gray 5441
12. ODR	
13. NET DENSITY (lb./ft ³)	
14. RIGIDNESS (cm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	OD _φ
b. -2 _φ to -1 _φ (%)	SE _φ
c. -1 _φ to 0 _φ (%)	ME _φ 863
d. 0 _φ to 1 _φ (%)	0.1 718
e. 1 _φ to 2 _φ (%)	0.2
f. 2 _φ to 3 _φ (%)	1
g. 3 _φ to 4 _φ (%)	
h. 4 _φ to 6 _φ (%)	9
i. 6 _φ to 8 _φ (%)	45
j. > 8 _φ (%)	40
20. SUBSAMPLE DRY WEIGHT (gm)	1221
21. SPECIFICITY (spg.)	
22. MINIMUM-TENSILE PLASTICITY	Med
23. SHEAR-TENSILE-TENSILE (cm. 1/2 in. 1/2 in.)	173
24. DIAMANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab.	

Sediment Type Clayey Silt

1. SAMPLE NUMBER	66-20-1
2. LATITUDE	41° 23' 54" N
3. LONGITUDE	68° 52' 36" W
4. DATE (Day, month, year)	5 August 1959
5. LABORATORY NUMBERS	4807
6. WATER DEPTH (m.)	11.7
11. COLOR	Olive Gray 5441
12. ODR	slightly foul
13. NET DENSITY (lb./ft ³)	
14. RIGIDNESS (cm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	OD _φ
b. -2 _φ to -1 _φ (%)	SE _φ
c. -1 _φ to 0 _φ (%)	ME _φ 844
d. 0 _φ to 1 _φ (%)	0.1 676
e. 1 _φ to 2 _φ (%)	0.2
f. 2 _φ to 3 _φ (%)	3
g. 3 _φ to 4 _φ (%)	
h. 4 _φ to 6 _φ (%)	13
i. 6 _φ to 8 _φ (%)	43
j. > 8 _φ (%)	41
20. SUBSAMPLE DRY WEIGHT (gm)	1070
21. SPECIFICITY (spg.)	
22. MINIMUM-TENSILE PLASTICITY	Low
23. SHEAR-TENSILE-TENSILE (cm. 1/2 in. 1/2 in.)	0
24. DIAMANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab.	

Sediment Type Clayey Silt

1. SAMPLE NUMBER	66-22-1
2. LATITUDE	44° 23' 24" N
3. LONGITUDE	68° 51' 30" W
4. DATE (Day, month, year)	5 August 1959
5. LABORATORY NUMBERS	4808
6. WATER DEPTH (m.)	175
11. COLOR	Olive Gray 5/4H

12. ODR	
13. NET DENSITY (lb./ft ³)	
14. RESIDUE (m)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	0 _φ
b. -2 _φ to -1 _φ (%)	SK _φ
c. -1 _φ to 0 _φ (%)	M _φ 8.68
d. 0 _φ to 1 _φ (%)	0 _φ 6.70
e. 1 _φ to 2 _φ (%)	> 2
f. 2 _φ to 3 _φ (%)	
g. 3 _φ to 4 _φ (%)	14
h. 4 _φ to 6 _φ (%)	42
i. 6 _φ to 8 _φ (%)	42
j. > 8 _φ (%)	11.64

20. SUBSAMPLE DRY WEIGHT (m)	
21. SPECIFIC (wgs.)	
22. SHIMMERTON-LOAN Plasticity	Med
23. SHIMMERTON-LOAN Plasticity	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab

Sediment Type Clayey Silt

1. SAMPLE NUMBER	66-22-1
2. LATITUDE	44° 22' 54" N
3. LONGITUDE	68° 50' 30" W
4. DATE (Day, month, year)	5 August 1959
5. LABORATORY NUMBERS	4809
6. WATER DEPTH (m.)	250
11. COLOR	Olive Gray 5/4H

12. ODR	
13. NET DENSITY (lb./ft ³)	
14. RESIDUE (m)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	0 _φ
b. -2 _φ to -1 _φ (%)	SK _φ
c. -1 _φ to 0 _φ (%)	M _φ 8.66
d. 0 _φ to 1 _φ (%)	0 _φ 6.84
e. 1 _φ to 2 _φ (%)	> 4
f. 2 _φ to 3 _φ (%)	
g. 3 _φ to 4 _φ (%)	12
h. 4 _φ to 6 _φ (%)	39
i. 6 _φ to 8 _φ (%)	45
j. > 8 _φ (%)	13.48

20. SUBSAMPLE DRY WEIGHT (m)	
21. SPECIFIC (wgs.)	
22. SHIMMERTON-LOAN Plasticity	Med
23. SHIMMERTON-LOAN Plasticity	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab

Sediment Type Clayey Silt

1. SAMPLE NUMBER	66-23-1
2. LATITUDE	44° 21' 54" N
3. LONGITUDE	68° 50' 42" W
4. DATE (Day, month, year)	5 August 1959
5. LABORATORY NUMBERS	4810
6. WATER DEPTH (m.)	237
11. COLOR	Olive Gray 5/4H

12. ODR	
13. NET DENSITY (lb./ft ³)	
14. RESIDUE (m)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	0 _φ
b. -2 _φ to -1 _φ (%)	SK _φ
c. -1 _φ to 0 _φ (%)	M _φ 8.38
d. 0 _φ to 1 _φ (%)	0 _φ 6.65
e. 1 _φ to 2 _φ (%)	> 3
f. 2 _φ to 3 _φ (%)	
g. 3 _φ to 4 _φ (%)	14
h. 4 _φ to 6 _φ (%)	43
i. 6 _φ to 8 _φ (%)	40
j. > 8 _φ (%)	12.87

20. SUBSAMPLE DRY WEIGHT (m)	
21. SPECIFIC (wgs.)	
22. SHIMMERTON-LOAN Plasticity	Low
23. SHIMMERTON-LOAN Plasticity	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab

Sediment Type Clayey Silt

1. SAMPLE NUMBER	66-24-1
2. LATITUDE	44° 21' 00" N
3. LONGITUDE	68° 51' 00" W
4. DATE (Day, month, year)	5 August 1959
5. LABORATORY NUMBERS	4811
6. WATER DEPTH (m.)	300
11. COLOR	Olive Gray 5/4H

12. ODR	
13. NET DENSITY (lb./ft ³)	
14. RESIDUE (m)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	0 _φ
b. -2 _φ to -1 _φ (%)	SK _φ
c. -1 _φ to 0 _φ (%)	M _φ 8.12
d. 0 _φ to 1 _φ (%)	0 _φ 6.12
e. 1 _φ to 2 _φ (%)	1
f. 2 _φ to 3 _φ (%)	3
g. 3 _φ to 4 _φ (%)	7
h. 4 _φ to 6 _φ (%)	12
i. 6 _φ to 8 _φ (%)	39
j. > 8 _φ (%)	38

20. SUBSAMPLE DRY WEIGHT (m)	
21. SPECIFIC (wgs.)	
22. SHIMMERTON-LOAN Plasticity	Med
23. SHIMMERTON-LOAN Plasticity	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab

The sample was composed of silt and clay with some sand.

Sediment Type Clayey Silt

1. SAMPLE NUMBER	66-26-1
2. LATITUDE	44° 19' 53" N
3. LONGITUDE	68° 51' 06" W
4. DATE (Day, month, year)	5 August 1969
5. LABORATORY NUMBERS	4812
6. WATER DEPTH (m.)	175
11. COLOR	Olive Gray 54/11

12. DGR	
13. WET DENSITY (lb./ft ³)	
14. RIGIDITY (cm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	

a. < -2 _φ (%)	1	0 ₂ 2.89
b. -2 _φ to -1 _φ (%)	1	5 ₂ 40.10
c. -1 _φ to 0 _φ (%)	2	1 ₂ 6.4
d. 0 _φ to 1 _φ (%)	4	0 ₂ 3.35
e. 1 _φ to 2 _φ (%)	6	0 ₂ 9.18
f. 2 _φ to 3 _φ (%)	7	
g. 3 _φ to 4 _φ (%)	14	
h. 4 _φ to 5 _φ (%)	14	
i. 5 _φ to 6 _φ (%)	25	
j. > 6 _φ (%)	86	
20. SUBSAMPLE DRY WEIGHT (gm)		25.01
21. SPECIFIC GRAVITY		
22. MINERALS (from Plasticity)		None
23. SURFACE TEXTURE (from Shell Cn.)		0
24. DOMINANT MINERAL (%)		
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		

27. REMARKS: Items 11-26 determined in the lab	
The sample was composed of sand, silt and clay.	
Sediment Type	Silty Mud

1. SAMPLE NUMBER	66-26-1
2. LATITUDE	44° 19' 00" N
3. LONGITUDE	68° 51' 30" W
4. DATE (Day, month, year)	5 August 1969
5. LABORATORY NUMBERS	4813
6. WATER DEPTH (m.)	192
11. COLOR	Olive Gray 54/11

12. DGR	
13. WET DENSITY (lb./ft ³)	
14. RIGIDITY (cm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	

a. < -2 _φ (%)	0 ₂	0 ₂
b. -2 _φ to -1 _φ (%)	5 ₂	
c. -1 _φ to 0 _φ (%)	1 ₂ 8.63	
d. 0 _φ to 1 _φ (%)	0 ₂ 6.92	
e. 1 _φ to 2 _φ (%)	1	
f. 2 _φ to 3 _φ (%)		
g. 3 _φ to 4 _φ (%)		
h. 4 _φ to 5 _φ (%)	13	
i. 5 _φ to 6 _φ (%)	42	
j. > 6 _φ (%)	43	
20. SUBSAMPLE DRY WEIGHT (gm)		13.03
21. SPECIFIC GRAVITY		
22. MINERALS (from Plasticity)		Low
23. SURFACE TEXTURE (from Shell Cn.)		0
24. DOMINANT MINERAL (%)		
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		

27. REMARKS: Items 11-26 determined in the lab	
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1. SAMPLE NUMBER	66-27-1
2. LATITUDE	44° 18' 00" N
3. LONGITUDE	68° 51' 48" W
4. DATE (Day, month, year)	5 August 1969
5. LABORATORY NUMBERS	4814
6. WATER DEPTH (m.)	300
11. COLOR	Olive Gray 54/11

12. DGR	
13. WET DENSITY (lb./ft ³)	
14. RIGIDITY (cm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	

a. < -2 _φ (%)	0 ₂	0 ₂
b. -2 _φ to -1 _φ (%)	5 ₂	
c. -1 _φ to 0 _φ (%)	1 ₂ 8.63	
d. 0 _φ to 1 _φ (%)	0 ₂ 6.74	
e. 1 _φ to 2 _φ (%)	3	
f. 2 _φ to 3 _φ (%)		
g. 3 _φ to 4 _φ (%)		
h. 4 _φ to 5 _φ (%)	14	
i. 5 _φ to 6 _φ (%)	38	
j. > 6 _φ (%)	45	
20. SUBSAMPLE DRY WEIGHT (gm)		12.76
21. SPECIFIC GRAVITY		
22. MINERALS (from Plasticity)		Med
23. SURFACE TEXTURE (from Shell Cn.)		0
24. DOMINANT MINERAL (%)		
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		

27. REMARKS: Items 11-26 determined in the lab	
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1. SAMPLE NUMBER	66-28-1
2. LATITUDE	44° 16' 48" N
3. LONGITUDE	68° 52' 06" W
4. DATE (Day, month, year)	5 August 1969
5. LABORATORY NUMBERS	4815
6. WATER DEPTH (m.)	292.2
11. COLOR	Olive Gray 54/11

12. DGR	
13. WET DENSITY (lb./ft ³)	
14. RIGIDITY (cm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	

a. < -2 _φ (%)	0 ₂	0 ₂
b. -2 _φ to -1 _φ (%)	1	5 ₂
c. -1 _φ to 0 _φ (%)	1	1 ₂
d. 0 _φ to 1 _φ (%)	1	0 ₂
e. 1 _φ to 2 _φ (%)	2	0 ₂
f. 2 _φ to 3 _φ (%)	5	
g. 3 _φ to 4 _φ (%)	3	
h. 4 _φ to 5 _φ (%)		
i. 5 _φ to 6 _φ (%)	12	
j. > 6 _φ (%)		
20. SUBSAMPLE DRY WEIGHT (gm)		40.41
21. SPECIFIC GRAVITY		
22. MINERALS (from Plasticity)		None
23. SURFACE TEXTURE (from Shell Cn.)		0
24. DOMINANT MINERAL (%)		
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		

27. REMARKS: Items 11-26 determined in the lab	
The sample was composed of pebbles with some mud.	
Sediment Type	Pebbles with mud

1. SAMPLE NUMBER	66-29-1
2. LATITUDE	44° 15' 24" N
3. LONGITUDE	68° 52' 30" W
4. DATE (Day, month, year)	5 August 1969
5. LABORATORY NUMBERS	4816
6. WATER DEPTH (m.)	32.5

11. COLOR	Olive Gray 5/4/1
12. ODOUR	
13. WET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM PROSITY (%)	
16. MINIMUM PROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	0 _φ
b. -2 _φ to -1 _φ (%)	34 _φ
c. -1 _φ to 0 _φ (%)	W ₆₂ 7.04
d. 0 _φ to 1 _φ (%)	1
e. 1 _φ to 2 _φ (%)	0 _φ 5.24
f. 2 _φ to 3 _φ (%)	2
g. 3 _φ to 4 _φ (%)	4
h. 4 _φ to 6 _φ (%)	Trace
i. 6 _φ to 8 _φ (%)	27
j. 8 _φ to 10 _φ (%)	34
k. > 10 _φ (%)	31

20. SUSPENSIBLE DRY WEIGHT (gm)	12.49
21. SPECIFICITY (avg.)	
22. ADHESION (mm)	Plasticity Med
23. SHRINKAGE (mm)	< 1.9
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab
The sample was composed of silt and clay
with some sand.

Sediment Type	Clayey Silt
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1. SAMPLE NUMBER	66-30-1
2. LATITUDE	44° 14' 22" N
3. LONGITUDE	68° 52' 36" W
4. DATE (Day, month, year)	5 August 1969
5. LABORATORY NUMBERS	4817
6. WATER DEPTH (m.)	28.3

11. COLOR	Olive Gray 5/4/1
12. ODOUR	
13. WET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM PROSITY (%)	
16. MINIMUM PROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	0 _φ
b. -2 _φ to -1 _φ (%)	34 _φ
c. -1 _φ to 0 _φ (%)	W ₆₂ 8.80
d. 0 _φ to 1 _φ (%)	0 _φ 6.98
e. 1 _φ to 2 _φ (%)	1
f. 2 _φ to 3 _φ (%)	
g. 3 _φ to 4 _φ (%)	
h. 4 _φ to 6 _φ (%)	13
i. 6 _φ to 8 _φ (%)	39
j. > 8 _φ (%)	47

20. SUSPENSIBLE DRY WEIGHT (gm)	11.33
21. SPECIFICITY (avg.)	
22. ADHESION (mm)	Plasticity Low
23. SHRINKAGE (mm)	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab

Sediment Type	Clayey Silt
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1. SAMPLE NUMBER	66-31-1
2. LATITUDE	44° 13' 36" N
3. LONGITUDE	68° 53' 48" W
4. DATE (Day, month, year)	5 August 1969
5. LABORATORY NUMBERS	4818
6. WATER DEPTH (m.)	29.2

11. COLOR	Olive Gray 5/4/1
12. ODOUR	
13. WET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM PROSITY (%)	
16. MINIMUM PROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	0 _φ
b. -2 _φ to -1 _φ (%)	34 _φ
c. -1 _φ to 0 _φ (%)	W ₆₂ 8.48
d. 0 _φ to 1 _φ (%)	0 _φ 6.69
e. 1 _φ to 2 _φ (%)	
f. 2 _φ to 3 _φ (%)	
g. 3 _φ to 4 _φ (%)	
h. 4 _φ to 6 _φ (%)	16
i. 6 _φ to 8 _φ (%)	41
j. > 8 _φ (%)	43

20. SUSPENSIBLE DRY WEIGHT (gm)	14.71
21. SPECIFICITY (avg.)	
22. ADHESION (mm)	Plasticity Med
23. SHRINKAGE (mm)	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab

Sediment Type	Clayey Silt
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1. SAMPLE NUMBER	66-32-1
2. LATITUDE	44° 12' 42" N
3. LONGITUDE	68° 54' 30" W
4. DATE (Day, month, year)	5 August 1969
5. LABORATORY NUMBERS	4819
6. WATER DEPTH (m.)	27.5

11. COLOR	Olive Gray 5/4/1
12. ODOUR	
13. WET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM PROSITY (%)	
16. MINIMUM PROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	0 _φ
b. -2 _φ to -1 _φ (%)	34 _φ
c. -1 _φ to 0 _φ (%)	W ₆₂ 8.65
d. 0 _φ to 1 _φ (%)	0 _φ 6.60
e. 1 _φ to 2 _φ (%)	
f. 2 _φ to 3 _φ (%)	
g. 3 _φ to 4 _φ (%)	
h. 4 _φ to 6 _φ (%)	16
i. 6 _φ to 8 _φ (%)	40
j. > 8 _φ (%)	42

20. SUSPENSIBLE DRY WEIGHT (gm)	13.62
21. SPECIFICITY (avg.)	
22. ADHESION (mm)	Plasticity Med
23. SHRINKAGE (mm)	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab
Dark streaks

Sediment Type	Clayey Silt
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1. SAMPLE NUMBER	66-33-1
2. LATITUDE	44° 11' 48" N
3. LONGITUDE	68° 55' 01" W
4. DATE (Day, month, year)	5 August 1969
5. LABORATORY NUMBERS	4820
6. WATER DEPTH (m.)	31.7
11. COLOR	Olive Gray 5/4/1
12. DOOR	
13. WET DENSITY (lb./ft. ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < -2 _φ (%)	00 _φ
b. -2 _φ to -1 _φ (%)	34 _φ
c. -1 _φ to 0 _φ (%)	Med. 8.28
d. 0 _φ to 1 _φ (%)	01.618
e. 1 _φ to 2 _φ (%)	03 _φ
f. 2 _φ to 3 _φ (%)	3
g. 3 _φ to 4 _φ (%)	
h. 4 _φ to 5 _φ (%)	20
i. 5 _φ to 6 _φ (%)	36
j. > 6 _φ (%)	41
20. SUBSAMPLE DRY WEIGHT (gm)	13.33
21. SPECIFIC (equiv.)	
22. Porosity (equiv.)	High
23. SHAPE-TEXTURE (equiv.)	Shell Co.
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab	

1. SAMPLE NUMBER	66-34-1
2. LATITUDE	44° 10' 48" N
3. LONGITUDE	68° 56' 00" W
4. DATE (Day, month, year)	5 August 1969
5. LABORATORY NUMBERS	4826
6. WATER DEPTH (m.)	30.8
11. COLOR	Olive Gray 5/4/1
12. DOOR	
13. WET DENSITY (lb./ft. ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < -2 _φ (%)	00 _φ
b. -2 _φ to -1 _φ (%)	34 _φ
c. -1 _φ to 0 _φ (%)	Med. 8.65
d. 0 _φ to 1 _φ (%)	01.658
e. 1 _φ to 2 _φ (%)	
f. 2 _φ to 3 _φ (%)	1
g. 3 _φ to 4 _φ (%)	
h. 4 _φ to 5 _φ (%)	18
i. 5 _φ to 6 _φ (%)	37
j. > 6 _φ (%)	44
20. SUBSAMPLE DRY WEIGHT (gm)	10.58
21. SPECIFIC (equiv.)	
22. Porosity (equiv.)	Med
23. SHAPE-TEXTURE (equiv.)	Shell Co.
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab	

1. SAMPLE NUMBER	66-35-1
2. LATITUDE	44° 09' 54" N
3. LONGITUDE	68° 56' 36" W
4. DATE (Day, month, year)	10 August 1969
5. LABORATORY NUMBERS	4821
6. WATER DEPTH (m.)	30.8
11. COLOR	Olive Gray 5/4/1
12. DOOR	
13. WET DENSITY (lb./ft. ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < -2 _φ (%)	00 _φ
b. -2 _φ to -1 _φ (%)	34 _φ
c. -1 _φ to 0 _φ (%)	Med. 8.36
d. 0 _φ to 1 _φ (%)	01.660
e. 1 _φ to 2 _φ (%)	03 _φ
f. 2 _φ to 3 _φ (%)	1
g. 3 _φ to 4 _φ (%)	
h. 4 _φ to 5 _φ (%)	18
i. 5 _φ to 6 _φ (%)	40
j. > 6 _φ (%)	41
20. SUBSAMPLE DRY WEIGHT (gm)	13.74
21. SPECIFIC (equiv.)	
22. Porosity (equiv.)	Med
23. SHAPE-TEXTURE (equiv.)	Shell Co.
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab	

1. SAMPLE NUMBER	66-36-1
2. LATITUDE	44° 09' 00" N
3. LONGITUDE	68° 57' 18" W
4. DATE (Day, month, year)	10 August 1969
5. LABORATORY NUMBERS	4822
6. WATER DEPTH (m.)	41.8
11. COLOR	Olive Gray 5/4/1
12. DOOR	
13. WET DENSITY (lb./ft. ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < -2 _φ (%)	00 _φ
b. -2 _φ to -1 _φ (%)	34 _φ
c. -1 _φ to 0 _φ (%)	Med. 1.90
d. 0 _φ to 1 _φ (%)	01.570
e. 1 _φ to 2 _φ (%)	03 _φ
f. 2 _φ to 3 _φ (%)	3
g. 3 _φ to 4 _φ (%)	
h. 4 _φ to 5 _φ (%)	26
i. 5 _φ to 6 _φ (%)	32
j. > 6 _φ (%)	39
20. SUBSAMPLE DRY WEIGHT (gm)	13.71
21. SPECIFIC (equiv.)	
22. Porosity (equiv.)	Med
23. SHAPE-TEXTURE (equiv.)	Shell Co.
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab	

1. SAMPLE NUMBER	66-37-1
2. LATITUDE	44 08 06 N
3. LONGITUDE	68 57 54 W
4. DATE (day, month, year)	10 August 1959
5. LABORATORY NUMBERS	4828

6. WATER DEPTH (m.)	40.8
11. COLOR	Olive Black 52/11
12. DOOR	
13. WET DENSITY (lb./ft ³)	
14. RESIDUE (%)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. $\phi < -2$ (%)	00
b. -2 to -1 (%)	SE
c. -1 to 0 (%)	MC 8.17
d. 0 to 1 (%)	01 600
e. 1 to 2 (%)	01
f. 2 to 3 (%)	
g. 3 to 4 (%)	
h. 4 to 5 (%)	21
i. 5 to 6 (%)	35
j. 6 to 7 (%)	40
20. SUBSAMPLE DRY WEIGHT (gm)	11.51
21. SPECIFICITY (spg.)	
22. PLASTICITY (flow)	Plasticity Low
23. SHREVE-TECHER (flow) Shell Cn.	< 1%
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab	

Sediment Type Clayey Silt

1. SAMPLE NUMBER	66-38-1
2. LATITUDE	44 07 18 N
3. LONGITUDE	68 58 36 W
4. DATE (day, month, year)	10 August 1959
5. LABORATORY NUMBERS	4924

6. WATER DEPTH (m.)	39.2
11. COLOR	Olive Gray 53/11
12. DOOR	
13. WET DENSITY (lb./ft ³)	
14. RESIDUE (%)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. $\phi < -2$ (%)	00
b. -2 to -1 (%)	SE
c. -1 to 0 (%)	MC 7.94
d. 0 to 1 (%)	01 500
e. 1 to 2 (%)	00
f. 2 to 3 (%)	
g. 3 to 4 (%)	
h. 4 to 5 (%)	20
i. 5 to 6 (%)	27
j. 6 to 7 (%)	36
20. SUBSAMPLE DRY WEIGHT (gm)	13.90
21. SPECIFICITY (spg.)	
22. PLASTICITY (flow)	Plasticity High
23. SHREVE-TECHER (flow) Shell Cn.	< 1%
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab	

The sample was composed of silt and clay with some sand.

* With dark streaks

Sediment Type Clayey Silt

1. SAMPLE NUMBER	66-39-1
2. LATITUDE	44 06 18 N
3. LONGITUDE	68 59 24 W
4. DATE (day, month, year)	10 August 1959
5. LABORATORY NUMBERS	4825

6. WATER DEPTH (m.)	46.0
11. COLOR	Olive Gray 53/11
12. DOOR	
13. WET DENSITY (lb./ft ³)	
14. RESIDUE (%)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. $\phi < -2$ (%)	02 2.80
b. -2 to -1 (%)	SE 0.98
c. -1 to 0 (%)	MC 5.27
d. 0 to 1 (%)	01 3.40
e. 1 to 2 (%)	03 9.00
f. 2 to 3 (%)	8
g. 3 to 4 (%)	
h. 4 to 5 (%)	28
i. 5 to 6 (%)	20
j. 6 to 7 (%)	18
20. SUBSAMPLE DRY WEIGHT (gm)	19.04
21. SPECIFICITY (spg.)	
22. PLASTICITY (flow)	Plasticity Med
23. SHREVE-TECHER (flow) Shell Cn.	< 1%
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab	

The sample was composed of sand, silt and clay.

Sediment Type Silty Mud

1. SAMPLE NUMBER	66-40-1
2. LATITUDE	43 56 30 N
3. LONGITUDE	69 05 18 W
4. DATE (day, month, year)	14 August 1959
5. LABORATORY NUMBERS	4823

6. WATER DEPTH (m.)	20.9
11. COLOR	Olive Gray 54/11
12. DOOR	
13. WET DENSITY (lb./ft ³)	
14. RESIDUE (%)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. $\phi < -2$ (%)	75
b. -2 to -1 (%)	3
c. -1 to 0 (%)	3 MC -3.64
d. 0 to 1 (%)	5
e. 1 to 2 (%)	7
f. 2 to 3 (%)	5
g. 3 to 4 (%)	
h. 4 to 5 (%)	
i. 5 to 6 (%)	
j. 6 to 7 (%)	
20. SUBSAMPLE DRY WEIGHT (gm)	58.40
21. SPECIFICITY (spg.)	
22. PLASTICITY (flow)	Plasticity None
23. SHREVE-TECHER (flow) Shell Cn.	1%
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab	

Sediment Type Pebbles / Sand

1. SAMPLE NUMBER	66-6-1
2. LATITUDE	44° 14' 35" N
3. LONGITUDE	69° 00' 10" W
4. DATE (Day, month, year)	13 August 1959
5. LABORATORY NUMBERS	4827
6. WATER DEPTH (m.)	17.5
11. COLOR	Olive Gray 5/4/1

12. DOOR	
13. WET DENSITY (lb./ft ³)	
14. RESIDUE (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	7
b. -2 _φ to -1 _φ (%)	9
c. -1 _φ to 0 _φ (%)	10
d. 0 _φ to 1 _φ (%)	12
e. 1 _φ to 2 _φ (%)	17
f. 2 _φ to 3 _φ (%)	13
g. 3 _φ to 4 _φ (%)	2
h. 4 _φ to 6 _φ (%)	4
i. 6 _φ to 8 _φ (%)	11
j. > 8 _φ (%)	4
20. DISPERSE DRY WEIGHT (mm)	19.20
21. SPECIFICITY (mm.)	
22. MINIMUM-TEMPERATURE Plasticity	Med
23. SUBSISTENCE-TEMPERATURE 19°	
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab	
The sample was composed of sand with silty clay and some pebbles.	
Sediment Type	Silty Sand

1. SAMPLE NUMBER	66-H-1
2. LATITUDE	44° 14' 27" N
3. LONGITUDE	69° 00' 14" W
4. DATE (Day, month, year)	13 August 1959
5. LABORATORY NUMBERS	4828
6. WATER DEPTH (m.)	22.6
11. COLOR	Olive Gray 5/4/1

12. DOOR	
13. WET DENSITY (lb./ft ³)	
14. RESIDUE (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	4
b. -2 _φ to -1 _φ (%)	5
c. -1 _φ to 0 _φ (%)	2
d. 0 _φ to 1 _φ (%)	3
e. 1 _φ to 2 _φ (%)	4
f. 2 _φ to 3 _φ (%)	8
g. 3 _φ to 4 _φ (%)	25
h. 4 _φ to 6 _φ (%)	19
i. 6 _φ to 8 _φ (%)	10
j. > 8 _φ (%)	20
20. DISPERSE DRY WEIGHT (mm)	16.52
21. SPECIFICITY (mm.)	
22. MINIMUM-TEMPERATURE Plasticity	Med
23. SUBSISTENCE-TEMPERATURE 19°	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab	
The sample was composed of sand with silty clay and some pebbles.	
Sediment Type	Sandy Mud

1. SAMPLE NUMBER	66-19-1
2. LATITUDE	43° 44' 52" N
3. LONGITUDE	69° 19' 15" W
4. DATE (Day, month, year)	6 August 1959
5. LABORATORY NUMBERS	4857
6. WATER DEPTH (m.)	42.6
11. COLOR	Dark Yellowish Brown 10YR 4/2

12. DOOR	
13. WET DENSITY (lb./ft ³)	
14. RESIDUE (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	8
b. -2 _φ to -1 _φ (%)	4
c. -1 _φ to 0 _φ (%)	5
d. 0 _φ to 1 _φ (%)	6
e. 1 _φ to 2 _φ (%)	12
f. 2 _φ to 3 _φ (%)	18
g. 3 _φ to 4 _φ (%)	7
h. 4 _φ to 6 _φ (%)	6
i. 6 _φ to 8 _φ (%)	14
j. > 8 _φ (%)	20
20. DISPERSE DRY WEIGHT (mm)	26.52
21. SPECIFICITY (mm.)	
22. MINIMUM-TEMPERATURE Plasticity	Low
23. SUBSISTENCE-TEMPERATURE 15°	15°
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab	
The sample was composed of sand with silty clay and some pebbles.	
Sediment Type	Sandy Mud

1. SAMPLE NUMBER	66-70-1
2. LATITUDE	43° 45' 21" N
3. LONGITUDE	69° 16' 41" W
4. DATE (Day, month, year)	6 August 1959
5. LABORATORY NUMBERS	4858
6. WATER DEPTH (m.)	43.3
11. COLOR	Dark Yellowish Brown 10YR 4/2

12. DOOR	
13. WET DENSITY (lb./ft ³)	
14. RESIDUE (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	40
b. -2 _φ to -1 _φ (%)	13
c. -1 _φ to 0 _φ (%)	10
d. 0 _φ to 1 _φ (%)	10
e. 1 _φ to 2 _φ (%)	9
f. 2 _φ to 3 _φ (%)	5
g. 3 _φ to 4 _φ (%)	2
h. 4 _φ to 6 _φ (%)	2
i. 6 _φ to 8 _φ (%)	4
j. > 8 _φ (%)	5
20. DISPERSE DRY WEIGHT (mm)	44.11
21. SPECIFICITY (mm.)	
22. MINIMUM-TEMPERATURE Plasticity	Med
23. SUBSISTENCE-TEMPERATURE 0	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab	
The sample was composed of sand with silty clay and some pebbles.	
Sediment Type	Pebbly Sand

1. SAMPLE NUMBER	66-91-1	5. SAMPLER TYPE	KULLENBERG
2. LATITUDE	43° 58' N	5. WATER DEPTH (m.)	14.5
3. LONGITUDE	69° 01' W	7. CORE LENGTH (m.)	2.7
4. DATE (day, month, year)	2 SEPT. 1959	8. CORE PENETRATION (m.)	40
5. LABORATORY NUMBERS	3556		
10. SUBSAMPLE DEPTH IN CORE (m.)	17-21	3597	3598
11. COLOR	GRAYISH BLACK	21-23	25-27
	GREENISH BLACK		
	GRAY		
	5 Y 4/1		
12. ODR	N2		
13. WET DENSITY (lb./ft ³)			
14. RIGIDNESS (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. $\Sigma < 2\phi$ (%)	00 ₂ 2.48	00 ₁ 3.08	00 ₂ 4.31
b. $\Sigma < 2\phi$ to -1ϕ (%)	50 ₂ 1.24	50 ₁ 1.10	50 ₂ 0.06
c. -1ϕ to 0ϕ (%)	10 ₂ 4.00	10 ₁ 3.64	10 ₂ 3.60
d. 0ϕ to 1ϕ (%)	01 ₂ 2.70	01 ₁ 1.65	01 ₂ 0.65
e. 1ϕ to 2ϕ (%)	02 ₂ 7.72	02 ₁ 7.82	02 ₂ 7.97
f. 2ϕ to 3ϕ (%)	21	13	6
g. 3ϕ to 4ϕ (%)	20	9	4
h. 4ϕ to 6ϕ (%)	17	13	13
i. 6ϕ to 9ϕ (%)	12	14	13
j. $> 9\phi$ (%)	20	19	21
20. DISAMPLE DRY WEIGHT (gm)	25.16	18.60	23.92
21. SPECIFICITY (avg.)			
22. BURNNESS (avg.)			
23. SUBSAP TEXTURE (avg.)			
24. DRYHART MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS	Items 11-26 Determined in the lab. First 19" of core disturbed-Mud. 21-29" silt & shell as-27" amorphous woody material.		
SEDIMENT TYPE	SANDY MUD	SILTY SAND	8% GRASSY SANDY MUD

1. SAMPLE NUMBER	66-92-1	5. SAMPLER TYPE	PALGER
2. LATITUDE	43° 56' N	5. WATER DEPTH (m.)	21.7
3. LONGITUDE	69° 10' W	7. CORE LENGTH (m.)	12
4. DATE (day, month, year)	2 SEPTEMBER 1959	8. CORE PENETRATION (m.)	50
5. LABORATORY NUMBERS	3709	3708	3710
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2	2-6	6-9
11. COLOR	Dark Greenish Gray (5 Y 4/1)	Dark Gray (5 Y 4/1)	Green (5 Y 4/1)
12. ODR			
13. WET DENSITY (lb./ft ³)			
14. RIGIDNESS (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. $\Sigma < 2\phi$ (%)	00 ₂	00 ₁	00 ₂
b. $\Sigma < 2\phi$ to -1ϕ (%)	50 ₂	50 ₁	50 ₂
c. -1ϕ to 0ϕ (%)	10 ₂ 8.67	10 ₁ 2.34	10 ₂ 7.05
d. 0ϕ to 1ϕ (%)	01 ₂ 4.77	01 ₁ 4.06	01 ₂ 5.28
e. 1ϕ to 2ϕ (%)	02 ₂	02 ₁	02 ₂
f. 2ϕ to 3ϕ (%)			
g. 3ϕ to 4ϕ (%)	13	12	9
h. 4ϕ to 6ϕ (%)	29	29	30
i. 6ϕ to 9ϕ (%)	22	24	24
j. $> 9\phi$ (%)	35	34	37
20. DISAMPLE DRY WEIGHT (gm)		24.67	22.32
21. SPECIFICITY (avg.)			
22. BURNNESS (avg.)	Plasticity	Med.	Med.
23. SUBSAP TEXTURE (avg.)	Plasticity	Med.	Med.
24. DRYHART MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS	Items 11-26 DETERMINED IN THE LAB. THE CORE CONTAINED SAND STREAMS AT 11 INCHES. COLOR CHANGES AT 2 & 6.		
SEDIMENT TYPE	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT

1. SAMPLE NUMBER	66-93-2				5. SAMPLER TYPE	KULENBERG			
2. LATITUDE	43	56	12	N	6. WATER DEPTH (m.)	21.7			
3. LONGITUDE	69	10	19	W	7. CORE LENGTH (in.)	50			
4. DATE (day, month, year)	12 SEPTEMBER 1969				8. CORE PENETRATION (in.)	72			
9. LABORATORY NUMBERS					10. SUBSAMPLE DEPTH IN CORE (in.)				
11. COLOR					11. LABORATORY NUMBERS	3523	3524	3525	3526
12. WET DENSITY (lb./ft ³)					12. SUBSAMPLE DEPTH IN CORE (in.)	4-6	6-7 1/4 *	7 1/4 -10	10-12
13. RIGIDITY (mm)					13. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
14. MAXIMUM POROSITY (%)					14. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
15. MINIMUM POROSITY (%)					15. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
16. WATER CONTENT (%)					16. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
17. ORGANIC CARBON CONTENT (%)					17. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
18. SIZE ANALYSIS AND STATISTICAL MEASURES					18. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
19. SPECIFICITY (avg.)					19. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
20. SUBSAMPLE DRY WEIGHT (gm)					20. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
21. PLASTICITY (avg.)					21. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
22. CONTAMINANT MINERAL (%)					22. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
23. SECONDARY MINERAL (%)					23. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
24. OTHER MINERALS (%)					24. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
25. REMARKS					25. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)

ITEMS 11-26 DETERMINED IN THE LAB.

Scattered shell fragments throughout core.

Core appears uniform.

* Contained 1/4" black band.

SEDIMENT TYPE	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT
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1. SAMPLE NUMBER	66-93-2				5. SAMPLER TYPE	DOWNED			
2. LATITUDE					6. WATER DEPTH (m.)				
3. LONGITUDE					7. CORE LENGTH (in.)				
4. DATE (day, month, year)					8. CORE PENETRATION (in.)				
9. LABORATORY NUMBERS					10. SUBSAMPLE DEPTH IN CORE (in.)	3525	3526	3527	3528
11. COLOR					11. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
12. WET DENSITY (lb./ft ³)					12. SUBSAMPLE DEPTH IN CORE (in.)	24-26	38-40	48-50	50-52
13. RIGIDITY (mm)					13. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
14. MAXIMUM POROSITY (%)					14. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
15. MINIMUM POROSITY (%)					15. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
16. WATER CONTENT (%)					16. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
17. ORGANIC CARBON CONTENT (%)					17. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
18. SIZE ANALYSIS AND STATISTICAL MEASURES					18. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
19. SPECIFICITY (avg.)					19. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
20. SUBSAMPLE DRY WEIGHT (gm)					20. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
21. PLASTICITY (avg.)					21. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
22. CONTAMINANT MINERAL (%)					22. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
23. SECONDARY MINERAL (%)					23. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
24. OTHER MINERALS (%)					24. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)
25. REMARKS					25. LABORATORY NUMBERS	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)	GRANISH OLIVE GREEN (567 1/2)

ITEMS 11-26 DETERMINED IN THE LAB.

Scattered shell fragments throughout core.

Core appears uniform.

* Contained 1/4" black band.

SEDIMENT TYPE	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT
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1. SAMPLE NUMBER	66-94-1	5. SAMPLER TYPE	Kullenberg
2. LATITUDE	43° 52' 50" N	6. WATER DEPTH (m.)	36.7
3. LONGITUDE	69° 14' 18" W	7. CORE LENGTH (m.)	114
4. DATE (day, month, year)	2 October 1969	8. CORE PENETRATION (m.)	120
9. LABORATORY NUMBERS			
10. SUBSAMPLE DEPTH IN CORE (m.)	40.22	40.23	40.25
11. COLOR	0-2	10-12	29-31
12. ODR			
13. WET DENSITY (lb./ft. ³)			
14. RIGIDNESS (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2 _φ (%)	0 _φ	0 _φ	0 _φ
b. 2 _φ to -1 _φ (%)	SE _φ	SE _φ	SE _φ
c. -1 _φ to 0 _φ (%)	M _φ 8.53	M _φ 8.10	M _φ 8.38
d. 0 _φ to 1 _φ (%)	Trace	0 _φ 6.00	0 _φ 5.75
e. 1 _φ to 2 _φ (%)	Trace	0 _φ	0 _φ
f. 2 _φ to 3 _φ (%)	4	5	4
g. 3 _φ to 4 _φ (%)	21	22	22
h. 4 _φ to 5 _φ (%)	29	30	30
i. 5 _φ to 6 _φ (%)	44	43	45
j. > 6 _φ (%)	7.39	7.61	7.29
20. SUBSAMPLE DRY WEIGHT (gm)			6.60
21. SPECIFIC (avg.)	High	High	High
22. HUMIDITY (avg.)	Plasticity	Plasticity	Plasticity
23. SHRECK-TESTING (mm)	0	< 1%	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS: Items 11-26 determined in the lab.			
Depth (m.)	Composition		
0-31	Greenish clay with dark streaks throughout the top 4 inches		
31-33	Soft, olive gray clay		
33-114	Green clay with soft area between 66 and 70 inches		
Sediment Type	Clayey Silt	Clayey Silt	Clayey Silt

1. SAMPLE NUMBER	66-94 continued	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS			
10. SUBSAMPLE DEPTH IN CORE (m.)	40.26	40.27	40.28
11. COLOR	Olive Gray	Grayish Olive Green	Grayish Olive Green
12. ODR	534/1	534/2	534/3
13. WET DENSITY (lb./ft. ³)			
14. RIGIDNESS (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2 _φ (%)	0 _φ	0 _φ	0 _φ
b. 2 _φ to -1 _φ (%)	SE _φ	SE _φ	SE _φ
c. -1 _φ to 0 _φ (%)	M _φ 2.67	M _φ 7.90	M _φ 8.15
d. 0 _φ to 1 _φ (%)	Trace	0 _φ 5.85	0 _φ 5.75
e. 1 _φ to 2 _φ (%)	Trace	0 _φ	0 _φ
f. 2 _φ to 3 _φ (%)	1	1	1
g. 3 _φ to 4 _φ (%)	9	8	5
h. 4 _φ to 5 _φ (%)	24	22	22
i. 5 _φ to 6 _φ (%)	25	29	29
j. > 6 _φ (%)	40	42	45
20. SUBSAMPLE DRY WEIGHT (gm)			
21. SPECIFIC (avg.)	9.70	14.41	13.05
22. HUMIDITY (avg.)	Plasticity	High	High
23. SHRECK-TESTING (mm)	0	< 1%	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS: continued			
Shell scattered throughout core.			
Dark layers in bottom of sample.			
Sediment Type	Clayey Silt	Clayey Silt	Clayey Silt

1. SAMPLE NUMBER	66-94 continued	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	4030	4031	4032
10. SUBSAMPLE DEPTH IN CORE (in.)	72-74	94-96	112-114
11. COLOR	Grayish Olive Green 5G Y 3/2	Grayish Olive Green 5G Y 3/2	Grayish Olive Green 5G Y 3/2
12. D234			
13. WET DENSITY (lb./ft. ³)			
14. RIGIDNESS (mm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
ϕ_1 - < 2 ϕ_1 (%)	ϕ_2	ϕ_3	ϕ_4
ϕ_1 - 2 ϕ_1 to ϕ_2 (%)	ϕ_2	ϕ_3	ϕ_4
ϕ_2 - 2 ϕ_2 to ϕ_3 (%)	ϕ_3	ϕ_4	ϕ_5
ϕ_3 - 2 ϕ_3 to ϕ_4 (%)	ϕ_4	ϕ_5	ϕ_6
ϕ_4 - 2 ϕ_4 to ϕ_5 (%)	ϕ_5	ϕ_6	ϕ_7
ϕ_5 - 2 ϕ_5 to ϕ_6 (%)	ϕ_6	ϕ_7	ϕ_8
ϕ_6 - 2 ϕ_6 to ϕ_7 (%)	ϕ_7	ϕ_8	ϕ_9
ϕ_7 - 2 ϕ_7 to ϕ_8 (%)	ϕ_8	ϕ_9	ϕ_{10}
ϕ_8 - 2 ϕ_8 to ϕ_9 (%)	ϕ_9	ϕ_{10}	ϕ_{11}
ϕ_9 - 2 ϕ_9 to ϕ_{10} (%)	ϕ_{10}	ϕ_{11}	ϕ_{12}
ϕ_{10} - 2 ϕ_{10} to ϕ_{11} (%)	ϕ_{11}	ϕ_{12}	ϕ_{13}
ϕ_{11} - 2 ϕ_{11} to ϕ_{12} (%)	ϕ_{12}	ϕ_{13}	ϕ_{14}
ϕ_{12} - 2 ϕ_{12} to ϕ_{13} (%)	ϕ_{13}	ϕ_{14}	ϕ_{15}
ϕ_{13} - 2 ϕ_{13} to ϕ_{14} (%)	ϕ_{14}	ϕ_{15}	ϕ_{16}
ϕ_{14} - 2 ϕ_{14} to ϕ_{15} (%)	ϕ_{15}	ϕ_{16}	ϕ_{17}
ϕ_{15} - 2 ϕ_{15} to ϕ_{16} (%)	ϕ_{16}	ϕ_{17}	ϕ_{18}
ϕ_{16} - 2 ϕ_{16} to ϕ_{17} (%)	ϕ_{17}	ϕ_{18}	ϕ_{19}
ϕ_{17} - 2 ϕ_{17} to ϕ_{18} (%)	ϕ_{18}	ϕ_{19}	ϕ_{20}
ϕ_{18} - 2 ϕ_{18} to ϕ_{19} (%)	ϕ_{19}	ϕ_{20}	ϕ_{21}
ϕ_{19} - 2 ϕ_{19} to ϕ_{20} (%)	ϕ_{20}	ϕ_{21}	ϕ_{22}
ϕ_{20} - 2 ϕ_{20} to ϕ_{21} (%)	ϕ_{21}	ϕ_{22}	ϕ_{23}
ϕ_{21} - 2 ϕ_{21} to ϕ_{22} (%)	ϕ_{22}	ϕ_{23}	ϕ_{24}
ϕ_{22} - 2 ϕ_{22} to ϕ_{23} (%)	ϕ_{23}	ϕ_{24}	ϕ_{25}
ϕ_{23} - 2 ϕ_{23} to ϕ_{24} (%)	ϕ_{24}	ϕ_{25}	ϕ_{26}
ϕ_{24} - 2 ϕ_{24} to ϕ_{25} (%)	ϕ_{25}	ϕ_{26}	ϕ_{27}
ϕ_{25} - 2 ϕ_{25} to ϕ_{26} (%)	ϕ_{26}	ϕ_{27}	ϕ_{28}
ϕ_{26} - 2 ϕ_{26} to ϕ_{27} (%)	ϕ_{27}	ϕ_{28}	ϕ_{29}
ϕ_{27} - 2 ϕ_{27} to ϕ_{28} (%)	ϕ_{28}	ϕ_{29}	ϕ_{30}
ϕ_{28} - 2 ϕ_{28} to ϕ_{29} (%)	ϕ_{29}	ϕ_{30}	ϕ_{31}
ϕ_{29} - 2 ϕ_{29} to ϕ_{30} (%)	ϕ_{30}	ϕ_{31}	ϕ_{32}
ϕ_{30} - 2 ϕ_{30} to ϕ_{31} (%)	ϕ_{31}	ϕ_{32}	ϕ_{33}
ϕ_{31} - 2 ϕ_{31} to ϕ_{32} (%)	ϕ_{32}	ϕ_{33}	ϕ_{34}
ϕ_{32} - 2 ϕ_{32} to ϕ_{33} (%)	ϕ_{33}	ϕ_{34}	ϕ_{35}
ϕ_{33} - 2 ϕ_{33} to ϕ_{34} (%)	ϕ_{34}	ϕ_{35}	ϕ_{36}
ϕ_{34} - 2 ϕ_{34} to ϕ_{35} (%)	ϕ_{35}	ϕ_{36}	ϕ_{37}
ϕ_{35} - 2 ϕ_{35} to ϕ_{36} (%)	ϕ_{36}	ϕ_{37}	ϕ_{38}
ϕ_{36} - 2 ϕ_{36} to ϕ_{37} (%)	ϕ_{37}	ϕ_{38}	ϕ_{39}
ϕ_{37} - 2 ϕ_{37} to ϕ_{38} (%)	ϕ_{38}	ϕ_{39}	ϕ_{40}
ϕ_{38} - 2 ϕ_{38} to ϕ_{39} (%)	ϕ_{39}	ϕ_{40}	ϕ_{41}
ϕ_{39} - 2 ϕ_{39} to ϕ_{40} (%)	ϕ_{40}	ϕ_{41}	ϕ_{42}
ϕ_{40} - 2 ϕ_{40} to ϕ_{41} (%)	ϕ_{41}	ϕ_{42}	ϕ_{43}
ϕ_{41} - 2 ϕ_{41} to ϕ_{42} (%)	ϕ_{42}	ϕ_{43}	ϕ_{44}
ϕ_{42} - 2 ϕ_{42} to ϕ_{43} (%)	ϕ_{43}	ϕ_{44}	ϕ_{45}
ϕ_{43} - 2 ϕ_{43} to ϕ_{44} (%)	ϕ_{44}	ϕ_{45}	ϕ_{46}
ϕ_{44} - 2 ϕ_{44} to ϕ_{45} (%)	ϕ_{45}	ϕ_{46}	ϕ_{47}
ϕ_{45} - 2 ϕ_{45} to ϕ_{46} (%)	ϕ_{46}	ϕ_{47}	ϕ_{48}
ϕ_{46} - 2 ϕ_{46} to ϕ_{47} (%)	ϕ_{47}	ϕ_{48}	ϕ_{49}
ϕ_{47} - 2 ϕ_{47} to ϕ_{48} (%)	ϕ_{48}	ϕ_{49}	ϕ_{50}
ϕ_{48} - 2 ϕ_{48} to ϕ_{49} (%)	ϕ_{49}	ϕ_{50}	ϕ_{51}
ϕ_{49} - 2 ϕ_{49} to ϕ_{50} (%)	ϕ_{50}	ϕ_{51}	ϕ_{52}
ϕ_{50} - 2 ϕ_{50} to ϕ_{51} (%)	ϕ_{51}	ϕ_{52}	ϕ_{53}
ϕ_{51} - 2 ϕ_{51} to ϕ_{52} (%)	ϕ_{52}	ϕ_{53}	ϕ_{54}
ϕ_{52} - 2 ϕ_{52} to ϕ_{53} (%)	ϕ_{53}	ϕ_{54}	ϕ_{55}
ϕ_{53} - 2 ϕ_{53} to ϕ_{54} (%)	ϕ_{54}	ϕ_{55}	ϕ_{56}
ϕ_{54} - 2 ϕ_{54} to ϕ_{55} (%)	ϕ_{55}	ϕ_{56}	ϕ_{57}
ϕ_{55} - 2 ϕ_{55} to ϕ_{56} (%)	ϕ_{56}	ϕ_{57}	ϕ_{58}
ϕ_{56} - 2 ϕ_{56} to ϕ_{57} (%)	ϕ_{57}	ϕ_{58}	ϕ_{59}
ϕ_{57} - 2 ϕ_{57} to ϕ_{58} (%)	ϕ_{58}	ϕ_{59}	ϕ_{60}
ϕ_{58} - 2 ϕ_{58} to ϕ_{59} (%)	ϕ_{59}	ϕ_{60}	ϕ_{61}
ϕ_{59} - 2 ϕ_{59} to ϕ_{60} (%)	ϕ_{60}	ϕ_{61}	ϕ_{62}
ϕ_{60} - 2 ϕ_{60} to ϕ_{61} (%)	ϕ_{61}	ϕ_{62}	ϕ_{63}
ϕ_{61} - 2 ϕ_{61} to ϕ_{62} (%)	ϕ_{62}	ϕ_{63}	ϕ_{64}
ϕ_{62} - 2 ϕ_{62} to ϕ_{63} (%)	ϕ_{63}	ϕ_{64}	ϕ_{65}
ϕ_{63} - 2 ϕ_{63} to ϕ_{64} (%)	ϕ_{64}	ϕ_{65}	ϕ_{66}
ϕ_{64} - 2 ϕ_{64} to ϕ_{65} (%)	ϕ_{65}	ϕ_{66}	ϕ_{67}
ϕ_{65} - 2 ϕ_{65} to ϕ_{66} (%)	ϕ_{66}	ϕ_{67}	ϕ_{68}
ϕ_{66} - 2 ϕ_{66} to ϕ_{67} (%)	ϕ_{67}	ϕ_{68}	ϕ_{69}
ϕ_{67} - 2 ϕ_{67} to ϕ_{68} (%)	ϕ_{68}	ϕ_{69}	ϕ_{70}
ϕ_{68} - 2 ϕ_{68} to ϕ_{69} (%)	ϕ_{69}	ϕ_{70}	ϕ_{71}
ϕ_{69} - 2 ϕ_{69} to ϕ_{70} (%)	ϕ_{70}	ϕ_{71}	ϕ_{72}
ϕ_{70} - 2 ϕ_{70} to ϕ_{71} (%)	ϕ_{71}	ϕ_{72}	ϕ_{73}
ϕ_{71} - 2 ϕ_{71} to ϕ_{72} (%)	ϕ_{72}	ϕ_{73}	ϕ_{74}
ϕ_{72} - 2 ϕ_{72} to ϕ_{73} (%)	ϕ_{73}	ϕ_{74}	ϕ_{75}
ϕ_{73} - 2 ϕ_{73} to ϕ_{74} (%)	ϕ_{74}	ϕ_{75}	ϕ_{76}
ϕ_{74} - 2 ϕ_{74} to ϕ_{75} (%)	ϕ_{75}	ϕ_{76}	ϕ_{77}
ϕ_{75} - 2 ϕ_{75} to ϕ_{76} (%)	ϕ_{76}	ϕ_{77}	ϕ_{78}
ϕ_{76} - 2 ϕ_{76} to ϕ_{77} (%)	ϕ_{77}	ϕ_{78}	ϕ_{79}
ϕ_{77} - 2 ϕ_{77} to ϕ_{78} (%)	ϕ_{78}	ϕ_{79}	ϕ_{80}
ϕ_{78} - 2 ϕ_{78} to ϕ_{79} (%)	ϕ_{79}	ϕ_{80}	ϕ_{81}
ϕ_{79} - 2 ϕ_{79} to ϕ_{80} (%)	ϕ_{80}	ϕ_{81}	ϕ_{82}
ϕ_{80} - 2 ϕ_{80} to ϕ_{81} (%)	ϕ_{81}	ϕ_{82}	ϕ_{83}
ϕ_{81} - 2 ϕ_{81} to ϕ_{82} (%)	ϕ_{82}	ϕ_{83}	ϕ_{84}
ϕ_{82} - 2 ϕ_{82} to ϕ_{83} (%)	ϕ_{83}	ϕ_{84}	ϕ_{85}
ϕ_{83} - 2 ϕ_{83} to ϕ_{84} (%)	ϕ_{84}	ϕ_{85}	ϕ_{86}
ϕ_{84} - 2 ϕ_{84} to ϕ_{85} (%)	ϕ_{85}	ϕ_{86}	ϕ_{87}
ϕ_{85} - 2 ϕ_{85} to ϕ_{86} (%)	ϕ_{86}	ϕ_{87}	ϕ_{88}
ϕ_{86} - 2 ϕ_{86} to ϕ_{87} (%)	ϕ_{87}	ϕ_{88}	ϕ_{89}
ϕ_{87} - 2 ϕ_{87} to ϕ_{88} (%)	ϕ_{88}	ϕ_{89}	ϕ_{90}
ϕ_{88} - 2 ϕ_{88} to ϕ_{89} (%)	ϕ_{89}	ϕ_{90}	ϕ_{91}
ϕ_{89} - 2 ϕ_{89} to ϕ_{90} (%)	ϕ_{90}	ϕ_{91}	ϕ_{92}
ϕ_{90} - 2 ϕ_{90} to ϕ_{91} (%)	ϕ_{91}	ϕ_{92}	ϕ_{93}
ϕ_{91} - 2 ϕ_{91} to ϕ_{92} (%)	ϕ_{92}	ϕ_{93}	ϕ_{94}
ϕ_{92} - 2 ϕ_{92} to ϕ_{93} (%)	ϕ_{93}	ϕ_{94}	ϕ_{95}
ϕ_{93} - 2 ϕ_{93} to ϕ_{94} (%)	ϕ_{94}	ϕ_{95}	ϕ_{96}
ϕ_{94} - 2 ϕ_{94} to ϕ_{95} (%)	ϕ_{95}	ϕ_{96}	ϕ_{97}
ϕ_{95} - 2 ϕ_{95} to ϕ_{96} (%)	ϕ_{96}	ϕ_{97}	ϕ_{98}
ϕ_{96} - 2 ϕ_{96} to ϕ_{97} (%)	ϕ_{97}	ϕ_{98}	ϕ_{99}
ϕ_{97} - 2 ϕ_{97} to ϕ_{98} (%)	ϕ_{98}	ϕ_{99}	ϕ_{100}
ϕ_{98} - 2 ϕ_{98} to ϕ_{99} (%)	ϕ_{99}	ϕ_{100}	ϕ_{101}
ϕ_{99} - 2 ϕ_{99} to ϕ_{100} (%)	ϕ_{100}	ϕ_{101}	ϕ_{102}
ϕ_{100} - 2 ϕ_{100} to ϕ_{101} (%)	ϕ_{101}	ϕ_{102}	ϕ_{103}
ϕ_{101} - 2 ϕ_{101} to ϕ_{102} (%)	ϕ_{102}	ϕ_{103}	ϕ_{104}
ϕ_{102} - 2 ϕ_{102} to ϕ_{103} (%)	ϕ_{103}	ϕ_{104}	ϕ_{105}
ϕ_{103} - 2 ϕ_{103} to ϕ_{104} (%)	ϕ_{104}	ϕ_{105}	ϕ_{106}
ϕ_{104} - 2 ϕ_{104} to ϕ_{105} (%)	ϕ_{105}	ϕ_{106}	ϕ_{107}
ϕ_{105} - 2 ϕ_{105} to ϕ_{106} (%)	ϕ_{106}	ϕ_{107}	ϕ_{108}
ϕ_{106} - 2 ϕ_{106} to ϕ_{107} (%)	ϕ_{107}	ϕ_{108}	ϕ_{109}
ϕ_{107} - 2 ϕ_{107} to ϕ_{108} (%)	ϕ_{108}	ϕ_{109}	ϕ_{110}
ϕ_{108} - 2 ϕ_{108} to ϕ_{109} (%)	ϕ_{109}	ϕ_{110}	ϕ_{111}
ϕ_{109} - 2 ϕ_{109} to ϕ_{110} (%)	ϕ_{110}	ϕ_{111}	ϕ_{112}
ϕ_{110} - 2 ϕ_{110} to ϕ_{111} (%)	ϕ_{111}	ϕ_{112}	ϕ_{113}
ϕ_{111} - 2 ϕ_{111} to ϕ_{112} (%)	ϕ_{112}	ϕ_{113}	ϕ_{114}
ϕ_{112} - 2 ϕ_{112} to ϕ_{113} (%)	ϕ_{113}	ϕ_{114}	ϕ_{115}
ϕ_{113} - 2 ϕ_{113} to ϕ_{114} (%)	ϕ_{114}	ϕ_{115}	ϕ_{116}
ϕ_{114} - 2 ϕ_{114} to ϕ_{115} (%)	ϕ_{115}	ϕ_{116}	ϕ_{117}
ϕ_{115} - 2 ϕ_{115} to ϕ_{116} (%)	ϕ_{116}	ϕ_{117}	ϕ_{118}
ϕ_{116} - 2 ϕ_{116} to ϕ_{117} (%)	ϕ_{117}	ϕ_{118}	ϕ_{119}
ϕ_{117} - 2 ϕ_{117} to ϕ_{118} (%)	ϕ_{118}	ϕ_{119}	ϕ_{120}
ϕ_{118} - 2 ϕ_{118} to ϕ_{119} (%)	ϕ_{119}	ϕ_{120}	ϕ_{121}
ϕ_{119} - 2 ϕ_{119} to ϕ_{120} (%)	ϕ_{120}	ϕ_{121}	ϕ_{122}
ϕ_{120} - 2 ϕ_{120} to ϕ_{121} (%)	ϕ_{121}	ϕ_{122}	ϕ_{123}
ϕ_{121} - 2 ϕ_{121} to ϕ_{122} (%)	ϕ_{122}	ϕ_{123}	ϕ_{124}
ϕ_{122} - 2 ϕ_{122} to ϕ_{123} (%)	ϕ_{123}	ϕ_{124}	ϕ_{125}
ϕ_{123} - 2 ϕ_{123} to ϕ_{124} (%)	ϕ_{124}	ϕ_{125}	ϕ_{126}
ϕ_{124} - 2 ϕ_{124} to ϕ_{125} (%)	ϕ_{125}	ϕ_{126}	ϕ_{127}
ϕ_{125} - 2 ϕ_{125} to ϕ_{126} (%)	ϕ_{126}	ϕ_{127}	ϕ_{128}
ϕ_{126} - 2 ϕ_{126} to ϕ_{127} (%)	ϕ_{127}	ϕ_{128}	ϕ_{129}
ϕ_{127} - 2 ϕ_{127} to ϕ_{128} (%)	ϕ_{128}	ϕ_{129}	ϕ_{130}
ϕ_{128} - 2 ϕ_{128} to ϕ_{129} (%)	ϕ_{129}	ϕ_{130}	ϕ_{131}
ϕ_{129} - 2 ϕ_{129} to ϕ_{130} (%)	ϕ_{130}	ϕ_{131}	ϕ_{132}
ϕ_{130} - 2 ϕ_{130} to ϕ_{131} (%)	ϕ_{131}	ϕ_{132}	ϕ_{133}
ϕ_{131} - 2 ϕ_{131} to ϕ_{132} (%)	ϕ_{132}	ϕ_{133}	ϕ_{134}
ϕ_{132} - 2 ϕ_{132} to ϕ_{133} (%)	ϕ_{133}	ϕ_{134}	ϕ_{135}
ϕ_{133} - 2 ϕ_{133} to ϕ_{134} (%)	ϕ_{134}	ϕ_{135}	ϕ_{136}
ϕ_{134} - 2 ϕ_{134} to ϕ_{135} (%)	ϕ_{135}	ϕ_{136}	ϕ_{137}
ϕ_{135} - 2 ϕ_{135} to ϕ_{136} (%)	ϕ_{136}	ϕ_{137}	ϕ_{138}
ϕ_{136} - 2 ϕ_{136} to ϕ_{137} (%)	ϕ_{137}	ϕ_{138}	ϕ_{139}
ϕ_{137} - 2 ϕ_{137} to ϕ_{138} (%)	ϕ_{138}		

1. SAMPLE NUMBER	66-48-1
2. LATITUDE	43° 43' 54" N
3. LONGITUDE	69° 05' 54" W
4. DATE (Day, month, year)	8 September 1969
5. LABORATORY NUMBERS	4404
6. WATER DEPTH (m.)	34.2
11. COLOR	Olive Gray 5741

12. DOOR	
13. NET DENSITY (1b./ft ³)	
14. RIGIDITY (nm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 ϕ (%)	100
b. -2 ϕ to -1 ϕ (%)	4
c. -1 ϕ to 0 ϕ (%)	3
d. 0 ϕ to 1 ϕ (%)	3
e. 1 ϕ to 2 ϕ (%)	4
f. 2 ϕ to 3 ϕ (%)	4
g. 3 ϕ to 4 ϕ (%)	3
h. 4 ϕ to 6 ϕ (%)	7
i. 6 ϕ to 8 ϕ (%)	6
j. > 8 ϕ (%)	8

20. SUBSAMPLE DRY WEIGHT (gm)	40.19
21. SPECIFICITY (sw-1)	
22. MINERALS	Plasticity
23. MINERALS	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab

1. SAMPLE NUMBER	66-100-1
2. LATITUDE	43° 50' 00" N
3. LONGITUDE	68° 58' 00" W
4. DATE (Day, month, year)	8 September 1969
5. LABORATORY NUMBERS	4402
6. WATER DEPTH (m.)	25.0
11. COLOR	Olive Gray 5741

12. DOOR	
13. NET DENSITY (1b./ft ³)	
14. RIGIDITY (nm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 ϕ (%)	46
b. -2 ϕ to -1 ϕ (%)	9
c. -1 ϕ to 0 ϕ (%)	6
d. 0 ϕ to 1 ϕ (%)	7
e. 1 ϕ to 2 ϕ (%)	6
f. 2 ϕ to 3 ϕ (%)	5
g. 3 ϕ to 4 ϕ (%)	2
h. 4 ϕ to 6 ϕ (%)	5
i. 6 ϕ to 8 ϕ (%)	6
j. > 8 ϕ (%)	7

20. SUBSAMPLE DRY WEIGHT (gm)	220.11
21. SPECIFICITY (sw-1)	
22. MINERALS	Plasticity
23. MINERALS	None
24. DOMINANT MINERAL (%)	1%
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab

The sample contained one large pebble
($2\frac{1}{2} \times 1\frac{1}{2} \times 1'' - 8(1.3\text{cm})$) - not included
in analysis.

1. SAMPLE NUMBER	66-101-1
2. LATITUDE	43° 51' 32" N
3. LONGITUDE	68° 58' 00" W
4. DATE (Day, month, year)	8 September 1969
5. LABORATORY NUMBERS	4403
6. WATER DEPTH (m.)	27.2
11. COLOR	Olive Gray 5741

12. DOOR	
13. NET DENSITY (1b./ft ³)	
14. RIGIDITY (nm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 ϕ (%)	30
b. -2 ϕ to -1 ϕ (%)	9
c. -1 ϕ to 0 ϕ (%)	5
d. 0 ϕ to 1 ϕ (%)	8
e. 1 ϕ to 2 ϕ (%)	9
f. 2 ϕ to 3 ϕ (%)	10
g. 3 ϕ to 4 ϕ (%)	6
h. 4 ϕ to 6 ϕ (%)	6
i. 6 ϕ to 8 ϕ (%)	8
j. > 8 ϕ (%)	13

20. SUBSAMPLE DRY WEIGHT (gm)	125.88
21. SPECIFICITY (sw-1)	
22. MINERALS	Plasticity
23. MINERALS	Med
24. DOMINANT MINERAL (%)	2%
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab

1. SAMPLE NUMBER	66-102-1
2. LATITUDE	43° 53' 03" N
3. LONGITUDE	68° 57' 48" W
4. DATE (Day, month, year)	8 September 1969
5. LABORATORY NUMBERS	4404
6. WATER DEPTH (m.)	23.7
11. COLOR	Olive Gray 5741

12. DOOR	
13. NET DENSITY (1b./ft ³)	
14. RIGIDITY (nm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 ϕ (%)	14
b. -2 ϕ to -1 ϕ (%)	15
c. -1 ϕ to 0 ϕ (%)	26
d. 0 ϕ to 1 ϕ (%)	16
e. 1 ϕ to 2 ϕ (%)	22
f. 2 ϕ to 3 ϕ (%)	6
g. 3 ϕ to 4 ϕ (%)	Trace
h. 4 ϕ to 6 ϕ (%)	2
i. 6 ϕ to 8 ϕ (%)	
j. > 8 ϕ (%)	

20. SUBSAMPLE DRY WEIGHT (gm)	48.57
21. SPECIFICITY (sw-1)	
22. MINERALS	Plasticity
23. MINERALS	Low
24. DOMINANT MINERAL (%)	< 1%
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab

Sediment Type Pebbles & Sand

Sediment Type Pebbles & Sand

Sediment Type Pebbly Sand

Sediment Type Sand

1. SAMPLE NUMBER	66-103-1
2. LATITUDE	43° 53' 12" N
3. LONGITUDE	68° 56' 06" W
4. DATE (day, month, year)	8 September 1969
5. LABORATORY NUMBERS	4905
6. WATER DEPTH (m.)	22.5'

11. COLOR	Olive Gray 5Y4/1
12. ODR	
13. WET DENSITY (lb./ft ³)	
14. RIGIDITY (cm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	

a. ϕ_{25} (%)	52	ϕ_{25} 2.73
b. ϕ_{20} to ϕ_{10} (%)	7	ϕ_{20} 1.29
c. ϕ_{10} to ϕ_5 (%)	6	ϕ_{10} 0.24
d. ϕ_5 to $\phi_{2.5}$ (%)	5	ϕ_5 0.73
e. $\phi_{2.5}$ to ϕ_1 (%)	6	$\phi_{2.5}$ 1.83
f. ϕ_1 to $\phi_{0.75}$ (%)	10	
g. $\phi_{0.75}$ to $\phi_{0.425}$ (%)	3	
h. $\phi_{0.425}$ to $\phi_{0.25}$ (%)	2	
i. $\phi_{0.25}$ to $\phi_{0.15}$ (%)	3	
j. $\phi_{0.15}$ to $\phi_{0.075}$ (%)	3	
k. $\phi_{0.075}$ (%)	6	

20. SUBSAMPLABLE DRY WEIGHT (gm)	222.32
21. SPECIFICITY (equiv.)	
22. dominant mineral Plasticity	Mod.
23. sample texture equiv Shell Gr.	2%
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab	

The entire sample was analysed.

Sediment Type	Pebbles & Sand
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1. SAMPLE NUMBER	66-104-1
2. LATITUDE	43° 53' 13" N
3. LONGITUDE	68° 54' 05" W
4. DATE (day, month, year)	8 September 1969
5. LABORATORY NUMBERS	4906
6. WATER DEPTH (m.)	25.8'

11. COLOR	Olive Gray 5Y4/1
12. ODR	
13. WET DENSITY (lb./ft ³)	
14. RIGIDITY (cm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	

a. ϕ_{25} (%)	4	ϕ_{25} 1.45
b. ϕ_{20} to ϕ_{10} (%)	1	ϕ_{20} 1.10
c. ϕ_{10} to ϕ_5 (%)	1	ϕ_{10} 2.67
d. ϕ_5 to $\phi_{2.5}$ (%)	1	ϕ_5 2.92
e. $\phi_{2.5}$ to ϕ_1 (%)	2	$\phi_{2.5}$ 5.22
f. ϕ_1 to $\phi_{0.75}$ (%)	46	
g. $\phi_{0.75}$ to $\phi_{0.425}$ (%)	9	
h. $\phi_{0.425}$ to $\phi_{0.25}$ (%)	23	
i. $\phi_{0.25}$ to $\phi_{0.15}$ (%)	6	
j. $\phi_{0.15}$ to $\phi_{0.075}$ (%)	8	

20. SUBSAMPLABLE DRY WEIGHT (gm)	26.43
21. SPECIFICITY (equiv.)	
22. dominant mineral Plasticity	4 Low
23. sample texture equiv Shell Gr.	5%
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab	

Sediment Type	Silty Sand
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1. SAMPLE NUMBER	66-105-1
2. LATITUDE	43° 54' 29" N
3. LONGITUDE	68° 53' 06" W
4. DATE (day, month, year)	8 September 1969
5. LABORATORY NUMBERS	4907
6. WATER DEPTH (m.)	29.3'

11. COLOR	Olive Gray 5Y4/1
12. ODR	
13. WET DENSITY (lb./ft ³)	
14. RIGIDITY (cm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	

a. ϕ_{25} (%)	17	ϕ_{25} 1.35
b. ϕ_{20} to ϕ_{10} (%)	20	ϕ_{20} 10.10
c. ϕ_{10} to ϕ_5 (%)	20	ϕ_{10} -0.36
d. ϕ_5 to $\phi_{2.5}$ (%)	17	ϕ_5 -1.60
e. $\phi_{2.5}$ to ϕ_1 (%)	12	$\phi_{2.5}$ 1.10
f. ϕ_1 to $\phi_{0.75}$ (%)	4	
g. $\phi_{0.75}$ to $\phi_{0.425}$ (%)	2	
h. $\phi_{0.425}$ to $\phi_{0.25}$ (%)	1	
i. $\phi_{0.25}$ to $\phi_{0.15}$ (%)	3	
j. $\phi_{0.15}$ to $\phi_{0.075}$ (%)	3	

20. SUBSAMPLABLE DRY WEIGHT (gm)	39.51
21. SPECIFICITY (equiv.)	
22. dominant mineral Plasticity	none
23. sample texture equiv Shell Gr.	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab	

Sediment Type	Pebbly Sand
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1. SAMPLE NUMBER	66-106-1
2. LATITUDE	43° 55' 54" N
3. LONGITUDE	68° 50' 06" W
4. DATE (day, month, year)	8 September 1969
5. LABORATORY NUMBERS	4908
6. WATER DEPTH (m.)	42.5'

11. COLOR	Olive Gray 5Y4/1
12. ODR	
13. WET DENSITY (lb./ft ³)	
14. RIGIDITY (cm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	

a. ϕ_{25} (%)	30	ϕ_{25} 3.15
b. ϕ_{20} to ϕ_{10} (%)	6	ϕ_{20} -0.01
c. ϕ_{10} to ϕ_5 (%)	7	ϕ_{10} 0.87
d. ϕ_5 to $\phi_{2.5}$ (%)	8	ϕ_5 -2.23
e. $\phi_{2.5}$ to ϕ_1 (%)	9	$\phi_{2.5}$ 4.00
f. ϕ_1 to $\phi_{0.75}$ (%)	10	
g. $\phi_{0.75}$ to $\phi_{0.425}$ (%)	5	
h. $\phi_{0.425}$ to $\phi_{0.25}$ (%)	5	
i. $\phi_{0.25}$ to $\phi_{0.15}$ (%)	8	
j. $\phi_{0.15}$ to $\phi_{0.075}$ (%)	11	

20. SUBSAMPLABLE DRY WEIGHT (gm)	121.87
21. SPECIFICITY (equiv.)	
22. dominant mineral Plasticity	Mod.
23. sample texture equiv Shell Gr.	2%
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab	

Sediment Type	Pebbly Sand
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1. SAMPLE NUMBER	66-107-1
2. LATITUDE	43° 55' 54" N
3. LONGITUDE	68° 52' 06" W
4. DATE (Day, month, year)	8 September 1959
5. LABORATORY NUMBERS	4409
6. WATER DEPTH (m.)	46.7

11. COLOR	Olive Gray 5411
12. ODR	
13. WET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	1
b. -2 _φ to -1 _φ (%)	1
c. -1 _φ to 0 _φ (%)	2
d. 0 _φ to 1 _φ (%)	2
e. 1 _φ to 2 _φ (%)	4
f. 2 _φ to 3 _φ (%)	11
g. 3 _φ to 4 _φ (%)	15
h. 4 _φ to 5 _φ (%)	13
i. 5 _φ to 6 _φ (%)	19
j. > 6 _φ (%)	27

20. SUBSAMPLE DRY WEIGHT (gm)	28.95
21. SPECIFICITY (avg.)	
22. MINIMUM PLASTICITY	Med.
23. SURFACE TEXTURE	1 P
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab	

Sediment Type Silty Mud

1. SAMPLE NUMBER	66-108-1
2. LATITUDE	43° 55' 54" N
3. LONGITUDE	68° 54' 18" W
4. DATE (Day, month, year)	8 September 1959
5. LABORATORY NUMBERS	4410
6. WATER DEPTH (m.)	49.5

11. COLOR	Olive Gray 5411
12. ODR	
13. WET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	20
b. -2 _φ to -1 _φ (%)	8
c. -1 _φ to 0 _φ (%)	20
d. 0 _φ to 1 _φ (%)	6
e. 1 _φ to 2 _φ (%)	10
f. 2 _φ to 3 _φ (%)	12
g. 3 _φ to 4 _φ (%)	17
h. 4 _φ to 5 _φ (%)	11
i. 5 _φ to 6 _φ (%)	11
j. > 6 _φ (%)	11

20. SUBSAMPLE DRY WEIGHT (gm)	74.67
21. SPECIFICITY (avg.)	
22. MINIMUM PLASTICITY	Med.
23. SURFACE TEXTURE	2 P
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab	

Sediment Type Silty Sand with silt

1. SAMPLE NUMBER	66-112-1
2. LATITUDE	43° 58' 51" N
3. LONGITUDE	68° 58' 00" W
4. DATE (Day, month, year)	8 September 1959
5. LABORATORY NUMBERS	4411
6. WATER DEPTH (m.)	53.0

11. COLOR	
12. ODR	
13. WET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	0 _φ
b. -2 _φ to -1 _φ (%)	5 _φ
c. -1 _φ to 0 _φ (%)	8 _φ
d. 0 _φ to 1 _φ (%)	0 _φ
e. 1 _φ to 2 _φ (%)	0 _φ
f. 2 _φ to 3 _φ (%)	
g. 3 _φ to 4 _φ (%)	
h. 4 _φ to 5 _φ (%)	
i. 5 _φ to 6 _φ (%)	
j. > 6 _φ (%)	

20. SUBSAMPLE DRY WEIGHT (gm)	
21. SPECIFICITY (avg.)	
22. MINIMUM PLASTICITY	
23. SURFACE TEXTURE	
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab	

Insufficient sample for analysis.

Sediment Type Clayey Silt

1. SAMPLE NUMBER	66-113-1
2. LATITUDE	44° 07' 20" N
3. LONGITUDE	68° 59' 48" W
4. DATE (Day, month, year)	9 September 1959
5. LABORATORY NUMBERS	4412
6. WATER DEPTH (m.)	57.5

11. COLOR	Olive Black
12. ODR	foul
13. WET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	0 _φ
b. -2 _φ to -1 _φ (%)	5 _φ
c. -1 _φ to 0 _φ (%)	75.5
d. 0 _φ to 1 _φ (%)	0 _φ
e. 1 _φ to 2 _φ (%)	1
f. 2 _φ to 3 _φ (%)	2
g. 3 _φ to 4 _φ (%)	5
h. 4 _φ to 5 _φ (%)	24
i. 5 _φ to 6 _φ (%)	32
j. > 6 _φ (%)	36

20. SUBSAMPLE DRY WEIGHT (gm)	16.83
21. SPECIFICITY (avg.)	
22. MINIMUM PLASTICITY	High
23. SURFACE TEXTURE	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab	

Sediment Type Clayey Silt

1. SAMPLE NUMBER	66-113-2	5. SAMPLER TYPE	Kullenberg
2. LATITUDE	44° 07' 20" N	6. WATER DEPTH (m.)	38.3
3. LONGITUDE	68° 59' 48" W	7. CORE LENGTH (m.)	96.02*
4. DATE (day, month, year)	9 September 1959	8. CORE PENETRATION (m.)	132
9. LABORATORY NUMBERS	4034	9. LABORATORY NUMBERS	4035 4036
10. SUBSAMPLER DEPTH IN CORE (m.)	4034	10. SUBSAMPLER DEPTH IN CORE (m.)	82-84 24-27
11. COLOR	Black and Olive Gray 58132	11. COLOR	Grayish Olive Green 58132
12. GOR		12. GOR	
13. NET DENSITY (lb./ft ³)		13. NET DENSITY (lb./ft ³)	
14. RIGIDITY (cm)		14. RIGIDITY (cm)	
15. WETNESS PERCENT (%)		15. WETNESS PERCENT (%)	
16. WETNESS PERCENT (%)		16. WETNESS PERCENT (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES		19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. ϕ_{-20} (%)	72	a. ϕ_{-20} (%)	58
b. ϕ_{-40} to ϕ_{-60} (%)	11	b. ϕ_{-40} to ϕ_{-60} (%)	58
c. ϕ_{-60} to ϕ_{-80} (%)	6.00	c. ϕ_{-60} to ϕ_{-80} (%)	58
d. ϕ_{-80} to ϕ_{-100} (%)	0.480	d. ϕ_{-80} to ϕ_{-100} (%)	58
e. ϕ_{-100} to ϕ_{-200} (%)	1	e. ϕ_{-100} to ϕ_{-200} (%)	58
f. ϕ_{-200} to ϕ_{-400} (%)	0.480	f. ϕ_{-200} to ϕ_{-400} (%)	58
g. ϕ_{-400} to ϕ_{-600} (%)	1	g. ϕ_{-400} to ϕ_{-600} (%)	58
h. ϕ_{-600} to ϕ_{-800} (%)	9	h. ϕ_{-600} to ϕ_{-800} (%)	58
i. ϕ_{-800} to ϕ_{-1000} (%)	40	i. ϕ_{-800} to ϕ_{-1000} (%)	58
j. ϕ_{-1000} to ϕ_{-2000} (%)	21	j. ϕ_{-1000} to ϕ_{-2000} (%)	58
k. ϕ_{-2000} to ϕ_{-4000} (%)	29	k. ϕ_{-2000} to ϕ_{-4000} (%)	58
l. ϕ_{-4000} to ϕ_{-6000} (%)	9.47	l. ϕ_{-4000} to ϕ_{-6000} (%)	58
m. ϕ_{-6000} to ϕ_{-8000} (%)	12.19	m. ϕ_{-6000} to ϕ_{-8000} (%)	58
n. ϕ_{-8000} to ϕ_{-10000} (%)	19.09	n. ϕ_{-8000} to ϕ_{-10000} (%)	58
o. ϕ_{-10000} to ϕ_{-20000} (%)	12.44	o. ϕ_{-10000} to ϕ_{-20000} (%)	58
p. ϕ_{-20000} to ϕ_{-40000} (%)	11.56	p. ϕ_{-20000} to ϕ_{-40000} (%)	58
q. ϕ_{-40000} to ϕ_{-60000} (%)	11.56	q. ϕ_{-40000} to ϕ_{-60000} (%)	58
r. ϕ_{-60000} to ϕ_{-80000} (%)	11.56	r. ϕ_{-60000} to ϕ_{-80000} (%)	58
s. ϕ_{-80000} to $\phi_{-100000}$ (%)	11.56	s. ϕ_{-80000} to $\phi_{-100000}$ (%)	58
t. $\phi_{-100000}$ to $\phi_{-200000}$ (%)	11.56	t. $\phi_{-100000}$ to $\phi_{-200000}$ (%)	58
u. $\phi_{-200000}$ to $\phi_{-400000}$ (%)	11.56	u. $\phi_{-200000}$ to $\phi_{-400000}$ (%)	58
v. $\phi_{-400000}$ to $\phi_{-600000}$ (%)	11.56	v. $\phi_{-400000}$ to $\phi_{-600000}$ (%)	58
w. $\phi_{-600000}$ to $\phi_{-800000}$ (%)	11.56	w. $\phi_{-600000}$ to $\phi_{-800000}$ (%)	58
x. $\phi_{-800000}$ to $\phi_{-1000000}$ (%)	11.56	x. $\phi_{-800000}$ to $\phi_{-1000000}$ (%)	58
y. $\phi_{-1000000}$ to $\phi_{-2000000}$ (%)	11.56	y. $\phi_{-1000000}$ to $\phi_{-2000000}$ (%)	58
z. $\phi_{-2000000}$ to $\phi_{-4000000}$ (%)	11.56	z. $\phi_{-2000000}$ to $\phi_{-4000000}$ (%)	58
aa. $\phi_{-4000000}$ to $\phi_{-6000000}$ (%)	11.56	aa. $\phi_{-4000000}$ to $\phi_{-6000000}$ (%)	58
ab. $\phi_{-6000000}$ to $\phi_{-8000000}$ (%)	11.56	ab. $\phi_{-6000000}$ to $\phi_{-8000000}$ (%)	58
ac. $\phi_{-8000000}$ to $\phi_{-10000000}$ (%)	11.56	ac. $\phi_{-8000000}$ to $\phi_{-10000000}$ (%)	58
ad. $\phi_{-10000000}$ to $\phi_{-20000000}$ (%)	11.56	ad. $\phi_{-10000000}$ to $\phi_{-20000000}$ (%)	58
ae. $\phi_{-20000000}$ to $\phi_{-40000000}$ (%)	11.56	ae. $\phi_{-20000000}$ to $\phi_{-40000000}$ (%)	58
af. $\phi_{-40000000}$ to $\phi_{-60000000}$ (%)	11.56	af. $\phi_{-40000000}$ to $\phi_{-60000000}$ (%)	58
ag. $\phi_{-60000000}$ to $\phi_{-80000000}$ (%)	11.56	ag. $\phi_{-60000000}$ to $\phi_{-80000000}$ (%)	58
ah. $\phi_{-80000000}$ to $\phi_{-100000000}$ (%)	11.56	ah. $\phi_{-80000000}$ to $\phi_{-100000000}$ (%)	58
ai. $\phi_{-100000000}$ to $\phi_{-200000000}$ (%)	11.56	ai. $\phi_{-100000000}$ to $\phi_{-200000000}$ (%)	58
aj. $\phi_{-200000000}$ to $\phi_{-400000000}$ (%)	11.56	aj. $\phi_{-200000000}$ to $\phi_{-400000000}$ (%)	58
ak. $\phi_{-400000000}$ to $\phi_{-600000000}$ (%)	11.56	ak. $\phi_{-400000000}$ to $\phi_{-600000000}$ (%)	58
al. $\phi_{-600000000}$ to $\phi_{-800000000}$ (%)	11.56	al. $\phi_{-600000000}$ to $\phi_{-800000000}$ (%)	58
am. $\phi_{-800000000}$ to $\phi_{-1000000000}$ (%)	11.56	am. $\phi_{-800000000}$ to $\phi_{-1000000000}$ (%)	58
an. $\phi_{-1000000000}$ to $\phi_{-2000000000}$ (%)	11.56	an. $\phi_{-1000000000}$ to $\phi_{-2000000000}$ (%)	58
ao. $\phi_{-2000000000}$ to $\phi_{-4000000000}$ (%)	11.56	ao. $\phi_{-2000000000}$ to $\phi_{-4000000000}$ (%)	58
ap. $\phi_{-4000000000}$ to $\phi_{-6000000000}$ (%)	11.56	ap. $\phi_{-4000000000}$ to $\phi_{-6000000000}$ (%)	58
aq. $\phi_{-6000000000}$ to $\phi_{-8000000000}$ (%)	11.56	aq. $\phi_{-6000000000}$ to $\phi_{-8000000000}$ (%)	58
ar. $\phi_{-8000000000}$ to $\phi_{-10000000000}$ (%)	11.56	ar. $\phi_{-8000000000}$ to $\phi_{-10000000000}$ (%)	58
as. $\phi_{-10000000000}$ to $\phi_{-20000000000}$ (%)	11.56	as. $\phi_{-10000000000}$ to $\phi_{-20000000000}$ (%)	58
at. $\phi_{-20000000000}$ to $\phi_{-40000000000}$ (%)	11.56	at. $\phi_{-20000000000}$ to $\phi_{-40000000000}$ (%)	58
au. $\phi_{-40000000000}$ to $\phi_{-60000000000}$ (%)	11.56	au. $\phi_{-40000000000}$ to $\phi_{-60000000000}$ (%)	58
av. $\phi_{-60000000000}$ to $\phi_{-80000000000}$ (%)	11.56	av. $\phi_{-60000000000}$ to $\phi_{-80000000000}$ (%)	58
aw. $\phi_{-80000000000}$ to $\phi_{-100000000000}$ (%)	11.56	aw. $\phi_{-80000000000}$ to $\phi_{-100000000000}$ (%)	58
ax. $\phi_{-100000000000}$ to $\phi_{-200000000000}$ (%)	11.56	ax. $\phi_{-100000000000}$ to $\phi_{-200000000000}$ (%)	58
ay. $\phi_{-200000000000}$ to $\phi_{-400000000000}$ (%)	11.56	ay. $\phi_{-200000000000}$ to $\phi_{-400000000000}$ (%)	58
az. $\phi_{-400000000000}$ to $\phi_{-600000000000}$ (%)	11.56	az. $\phi_{-400000000000}$ to $\phi_{-600000000000}$ (%)	58
ba. $\phi_{-600000000000}$ to $\phi_{-800000000000}$ (%)	11.56	ba. $\phi_{-600000000000}$ to $\phi_{-800000000000}$ (%)	58
bb. $\phi_{-800000000000}$ to $\phi_{-1000000000000}$ (%)	11.56	bb. $\phi_{-800000000000}$ to $\phi_{-1000000000000}$ (%)	58
bc. $\phi_{-1000000000000}$ to $\phi_{-2000000000000}$ (%)	11.56	bc. $\phi_{-1000000000000}$ to $\phi_{-2000000000000}$ (%)	58
bd. $\phi_{-2000000000000}$ to $\phi_{-4000000000000}$ (%)	11.56	bd. $\phi_{-2000000000000}$ to $\phi_{-4000000000000}$ (%)	58
be. $\phi_{-4000000000000}$ to $\phi_{-6000000000000}$ (%)	11.56	be. $\phi_{-4000000000000}$ to $\phi_{-6000000000000}$ (%)	58
bf. $\phi_{-6000000000000}$ to $\phi_{-8000000000000}$ (%)	11.56	bf. $\phi_{-6000000000000}$ to $\phi_{-8000000000000}$ (%)	58
bg. $\phi_{-8000000000000}$ to $\phi_{-10000000000000}$ (%)	11.56	bg. $\phi_{-8000000000000}$ to $\phi_{-10000000000000}$ (%)	58
bh. $\phi_{-10000000000000}$ to $\phi_{-20000000000000}$ (%)	11.56	bh. $\phi_{-10000000000000}$ to $\phi_{-20000000000000}$ (%)	58
bi. $\phi_{-20000000000000}$ to $\phi_{-40000000000000}$ (%)	11.56	bi. $\phi_{-20000000000000}$ to $\phi_{-40000000000000}$ (%)	58
bj. $\phi_{-40000000000000}$ to $\phi_{-60000000000000}$ (%)	11.56	bj. $\phi_{-40000000000000}$ to $\phi_{-60000000000000}$ (%)	58
bk. $\phi_{-60000000000000}$ to $\phi_{-80000000000000}$ (%)	11.56	bk. $\phi_{-60000000000000}$ to $\phi_{-80000000000000}$ (%)	58
bl. $\phi_{-80000000000000}$ to $\phi_{-100000000000000}$ (%)	11.56	bl. $\phi_{-80000000000000}$ to $\phi_{-100000000000000}$ (%)	58
bm. $\phi_{-100000000000000}$ to $\phi_{-200000000000000}$ (%)	11.56	bm. $\phi_{-100000000000000}$ to $\phi_{-200000000000000}$ (%)	58
bn. $\phi_{-200000000000000}$ to $\phi_{-400000000000000}$ (%)	11.56	bn. $\phi_{-200000000000000}$ to $\phi_{-400000000000000}$ (%)	58
bo. $\phi_{-400000000000000}$ to $\phi_{-600000000000000}$ (%)	11.56	bo. $\phi_{-400000000000000}$ to $\phi_{-600000000000000}$ (%)	58
bp. $\phi_{-600000000000000}$ to $\phi_{-800000000000000}$ (%)	11.56	bp. $\phi_{-600000000000000}$ to $\phi_{-800000000000000}$ (%)	58
bq. $\phi_{-800000000000000}$ to $\phi_{-1000000000000000}$ (%)	11.56	bq. $\phi_{-800000000000000}$ to $\phi_{-1000000000000000}$ (%)	58
br. $\phi_{-1000000000000000}$ to $\phi_{-2000000000000000}$ (%)	11.56	br. $\phi_{-1000000000000000}$ to $\phi_{-2000000000000000}$ (%)	58
bs. $\phi_{-2000000000000000}$ to $\phi_{-4000000000000000}$ (%)	11.56	bs. $\phi_{-2000000000000000}$ to $\phi_{-4000000000000000}$ (%)	58
bt. $\phi_{-4000000000000000}$ to $\phi_{-6000000000000000}$ (%)	11.56	bt. $\phi_{-4000000000000000}$ to $\phi_{-6000000000000000}$ (%)	58
bu. $\phi_{-6000000000000000}$ to $\phi_{-8000000000000000}$ (%)	11.56	bu. $\phi_{-6000000000000000}$ to $\phi_{-8000000000000000}$ (%)	58
bv. $\phi_{-8000000000000000}$ to $\phi_{-10000000000000000}$ (%)	11.56	bv. $\phi_{-8000000000000000}$ to $\phi_{-10000000000000000}$ (%)	58
bv. $\phi_{-10000000000000000}$ to $\phi_{-20000000000000000}$ (%)	11.56	bv. $\phi_{-10000000000000000}$ to $\phi_{-20000000000000000}$ (%)	58
bw. $\phi_{-20000000000000000}$ to $\phi_{-40000000000000000}$ (%)	11.56	bw. $\phi_{-20000000000000000}$ to $\phi_{-40000000000000000}$ (%)	58
bx. $\phi_{-40000000000000000}$ to $\phi_{-60000000000000000}$ (%)	11.56	bx. $\phi_{-40000000000000000}$ to $\phi_{-60000000000000000}$ (%)	58
by. $\phi_{-60000000000000000}$ to $\phi_{-80000000000000000}$ (%)	11.56	by. $\phi_{-60000000000000000}$ to $\phi_{-80000000000000000}$ (%)	58
bz. $\phi_{-80000000000000000}$ to $\phi_{-100000000000000000}$ (%)	11.56	bz. $\phi_{-80000000000000000}$ to $\phi_{-100000000000000000}$ (%)	58
ca. $\phi_{-100000000000000000}$ to $\phi_{-200000000000000000}$ (%)	11.56	ca. $\phi_{-100000000000000000}$ to $\phi_{-200000000000000000}$ (%)	58
cb. $\phi_{-200000000000000000}$ to $\phi_{-400000000000000000}$ (%)	11.56	cb. $\phi_{-200000000000000000}$ to $\phi_{-400000000000000000}$ (%)	58
cc. $\phi_{-400000000000000000}$ to $\phi_{-600000000000000000}$ (%)	11.56	cc. $\phi_{-400000000000000000}$ to $\phi_{-600000000000000000}$ (%)	58
cd. $\phi_{-600000000000000000}$ to $\phi_{-800000000000000000}$ (%)	11.56	cd. $\phi_{-600000000000000000}$ to $\phi_{-800000000000000000}$ (%)	58
ce. $\phi_{-800000000000000000}$ to $\phi_{-1000000000000000000}$ (%)	11.56	ce. $\phi_{-800000000000000000}$ to $\phi_{-1000000000000000000}$ (%)	58
cf. $\phi_{-1000000000000000000}$ to $\phi_{-2000000000000000000}$ (%)	11.56	cf. $\phi_{-1000000000000000000}$ to $\phi_{-2000000000000000000}$ (%)	58
cg. $\phi_{-2000000000000000000}$ to $\phi_{-4000000000000000000}$ (%)	11.56	cg. $\phi_{-2000000000000000000}$ to $\phi_{-4000000000000000000}$ (%)	58
ch. $\phi_{-4000000000000000000}$ to $\phi_{-6000000000000000000}$ (%)	11.56	ch. $\phi_{-4000000000000000000}$ to $\phi_{-6000000000000000000}$ (%)	58
ci. $\phi_{-6000000000000000000}$ to $\phi_{-8000000000000000000}$ (%)	11.56	ci. $\phi_{-6000000000000000000}$ to $\phi_{-8000000000000000000}$ (%)	58
cj. $\phi_{-8000000000000000000}$ to $\phi_{-10000000000000000000}$ (%)	11.56	cj. $\phi_{-8000000000000000000}$ to $\phi_{-10000000000000000000}$ (%)	58
ck. $\phi_{-10000000000000000000}$ to $\phi_{-20000000000000000000}$ (%)	11.56	ck. $\phi_{-10000000000000000000}$ to $\phi_{-20000000000000000000}$ (%)	58
cl. $\phi_{-20000000000000000000}$ to $\phi_{-40000000000000000000}$ (%)	11.56	cl. $\phi_{-20000000000000000000}$ to $\phi_{-40000000000000000000}$ (%)	58
cm. $\phi_{-40000000000000000000}$ to $\phi_{-60000000000000000000}$ (%)	11.56	cm. $\phi_{-40000000000000000000}$ to $\phi_{-60000000000000000000}$ (%)	58
cn. $\phi_{-60000000000000000000}$ to $\phi_{-80000000000000000000}$ (%)	11.56	cn. $\phi_{-60000000000000000000}$ to $\phi_{-80000000000000000000}$ (%)	58
co. $\phi_{-80000000000000000000}$ to $\phi_{-100000000000000000000}$ (%)	11.56	co. $\phi_{-80000000000000000000}$ to $\phi_{-100000000000000000000}$ (%)	58
cp. $\phi_{-100000000000000000000}$ to $\phi_{-200000000000000000000}$ (%)	11.56	cp. $\phi_{-100000000000000000000}$ to $\phi_{-200000000000000000000}$ (%)	58
cq. $\phi_{-200000000000000000000}$ to $\phi_{-400000000000000000000}$ (%)	11.56	cq. $\phi_{-200000000000000$	

1. SAMPLE NUMBER	66-114-1	5. SAMPLE TYPE	VULNERBERG
2. LATITUDE	44° 07' 38" N	5. WATER DEPTH (m.)	43.3
3. LONGITUDE	57° 45' W	7. CORE LENGTH (m.)	121
4. DATE (mth, month, year)	9 SEPTEMBER 1959	8. CORE PENETRATION (m.)	132
9. LABORATORY NUMBERS	3920 *	3921 *	3922
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2	9-11	30-32
11. COLOR	Dark Yellowish Green (10 BY 46)	Dark Yellowish Green (10 BY 46)	Dark Yellowish Green (10 BY 46)
12. OTHER			
13. WET DENSITY (lb./ft ³)			
14. RIGIDITY (cm)			
15. MINIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. -2 ₀ (%)	1	0 ₁₀	0 ₁₀
b. -2 ₀ to -1 ₀ (%)	1	0 ₁₀	0 ₁₀
c. -1 ₀ to 0 ₁₀ (%)	1	0 ₁₀	0 ₁₀
d. 0 ₁₀ to 1 ₀ (%)	1	0 ₁₀	0 ₁₀
e. 1 ₀ to 2 ₀ (%)	1	0 ₁₀	0 ₁₀
f. 2 ₀ to 3 ₀ (%)	1	0 ₁₀	0 ₁₀
g. 3 ₀ to 4 ₀ (%)	1	0 ₁₀	0 ₁₀
h. 4 ₀ to 6 ₀ (%)	1	0 ₁₀	0 ₁₀
i. 6 ₀ to 8 ₀ (%)	1	0 ₁₀	0 ₁₀
j. > 8 ₀ (%)	1	0 ₁₀	0 ₁₀
20. SUBSAMPLE DRY WEIGHT (gm)	26.02	21.46	24.67
21. SPHERICITY (cm)			
22. SPHERICITY (cm)			
23. SPHERICITY (cm)			
24. SPHERICITY (cm)			
25. SPHERICITY (cm)			
26. SPHERICITY (cm)			
27. REMARKS	ITEMS 11-26 DETERMINED IN THE LAB		

* THE SAMPLE CONTAINED BLACK STEAKS.
0-18" Black streaks 4 layers.

1. SAMPLE NUMBER	66-114-1	5. SAMPLE TYPE	CONTINUED
2. LATITUDE		5. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (mth, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3924	3925	3926
10. SUBSAMPLE DEPTH IN CORE (m.)	72-74	96-98	119-121
11. COLOR	Dark Yellowish Green (10 BY 46)	Dark Yellowish Green (10 BY 46)	Dark Yellowish Green (10 BY 46)
12. OTHER			
13. WET DENSITY (lb./ft ³)			
14. RIGIDITY (cm)			
15. MINIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. -2 ₀ (%)	1	0 ₁₀	0 ₁₀
b. -2 ₀ to -1 ₀ (%)	1	0 ₁₀	0 ₁₀
c. -1 ₀ to 0 ₁₀ (%)	1	0 ₁₀	0 ₁₀
d. 0 ₁₀ to 1 ₀ (%)	1	0 ₁₀	0 ₁₀
e. 1 ₀ to 2 ₀ (%)	1	0 ₁₀	0 ₁₀
f. 2 ₀ to 3 ₀ (%)	1	0 ₁₀	0 ₁₀
g. 3 ₀ to 4 ₀ (%)	1	0 ₁₀	0 ₁₀
h. 4 ₀ to 6 ₀ (%)	1	0 ₁₀	0 ₁₀
i. 6 ₀ to 8 ₀ (%)	1	0 ₁₀	0 ₁₀
j. > 8 ₀ (%)	1	0 ₁₀	0 ₁₀
20. SUBSAMPLE DRY WEIGHT (gm)	24.81	30.86	28.39
21. SPHERICITY (cm)			
22. SPHERICITY (cm)			
23. SPHERICITY (cm)			
24. SPHERICITY (cm)			
25. SPHERICITY (cm)			
26. SPHERICITY (cm)			
27. REMARKS	9-10 1/2" lens of soft olive mud. 36-11" scattered throughout core		

CONTINUED

1. SAMPLE NUMBER	66-115-1	5. SAMPLER TYPE	KALENBERG
2. LATITUDE	44° 08'	5. WATER DEPTH (m.)	35.8
3. LONGITUDE	57° 47' W	7. CORE LENGTH (m.)	12.8
4. DATE (day, month, year)	9 SEPTEMBER 1959	8. CORE PENETRATION (m.)	156
5. DEPOSITION RATE (cm. yr.)	3749		
6. SUBSAMPLING METHOD	0-2		
7. CORRECTION FACTOR	ONE GIGAY (5% 1/2)		
8. COMMENTS	ONE GIGAY (5% 1/2)		
9. LABORATORY NUMBERS	3801		
10. SUBSAMPLING DEPTH IN CM. (m.)	20-22		
11. COMMENTS	ONE GIGAY (5% 1/2)		
12. ODR			
13. WET DENSITY (lb./ft. ³)			
14. REDUCED (cm)			
15. MAXIMUM PROSITY (%)			
16. MINIMUM PROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SITE ANALYSIS AND STATISTICAL MEASURES			
a. $\bar{x} \pm 2s$ (s)	1	0.2	0.2
b. $\bar{x} \pm 2s$ to $-1s$ (s)	2	0.2	0.2
c. $\bar{x} \pm 1s$ to 0 (s)	1	0.2	0.2
d. 0 to $1s$ (s)	2	0.2	0.2
e. $1s$ to $2s$ (s)	3	0.2	0.2
f. $2s$ to $3s$ (s)	3	0.2	0.2
g. $3s$ to $4s$ (s)	2	0.2	0.2
h. $4s$ to $5s$ (s)	12	0.2	0.2
i. $5s$ to $6s$ (s)	41	0.2	0.2
j. $6s$ to $7s$ (s)	34	0.2	0.2
20. SUBSAMPLE DRY WEIGHT (mg)	32.14	27.01	26.86
21. SPECIFIC GRAVITY			
22. MINERALOGY Plasticity	High	High	High
23. SUBSTRATE TEXTURE STRUCTURE SHAPE GRAIN	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:	ITEMS 11-26 DETERMINED IN THE LAB.		

THE FIRST 24 INCHES CONTAINED HARD SPHERES.
WORM TUBES AND SHELL SCATTERED THROUGHOUT CORE.

SEDIMENT TYPE	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT
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1. SAMPLE NUMBER	66-115-1 CONTINUED	5. SAMPLER TYPE	
2. LATITUDE		5. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
5. LABORATORY NUMBERS			
10. SUBSAMPLING DEPTH IN CM. (m.)	3802		
11. COMMENTS	98-99		
12. ODR			
13. WET DENSITY (lb./ft. ³)			
14. REDUCED (cm)			
15. MAXIMUM PROSITY (%)			
16. MINIMUM PROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SITE ANALYSIS AND STATISTICAL MEASURES			
a. $\bar{x} \pm 2s$ (s)	0.2	0.2	0.2
b. $\bar{x} \pm 2s$ to $-1s$ (s)	0.2	0.2	0.2
c. $\bar{x} \pm 1s$ to 0 (s)	0.2	0.2	0.2
d. 0 to $1s$ (s)	0.2	0.2	0.2
e. $1s$ to $2s$ (s)	0.2	0.2	0.2
f. $2s$ to $3s$ (s)	0.2	0.2	0.2
g. $3s$ to $4s$ (s)	0.2	0.2	0.2
h. $4s$ to $5s$ (s)	0.2	0.2	0.2
i. $5s$ to $6s$ (s)	0.2	0.2	0.2
j. $6s$ to $7s$ (s)	0.2	0.2	0.2
20. SUBSAMPLE DRY WEIGHT (mg)	31.77	20.16	
21. SPECIFIC GRAVITY			
22. MINERALOGY Plasticity	High	High	High
23. SUBSTRATE TEXTURE STRUCTURE SHAPE GRAIN	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:			

SEDIMENT TYPE	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT
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1. SAMPLE NUMBER	66-116-1	5. SAMPLER TYPE	Kullenberg
2. LATITUDE	48° 10' 59" W	6. WATER DEPTH (m.)	16.7
3. LONGITUDE	68° 59' 55" W	7. CORE LENGTH (m.)	127
4. DATE (day, month, year)	9 September 1969	8. CORE PENETRATION (m.)	132
9. LABORATORY NUMBERS	3820		3823
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2		18-20
11. COLOR	Olive Gray 5141/2		Olive Gray 5141/1
12. DOOR			
13. NET DENSITY (lb./ft. ³)			
14. RIGIDNESS (cm)			
15. MAXIMUM PROSISTY (S)			
16. MINIMUM PROSISTY (S)			
17. WATER CONTENT (S)			
18. ORGANIC CARBON CONTENT (S)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
20. $\bar{x} \pm 2s$ (S)			
21. SPECIFICITY (vol.)			
22. SHAKE-TESTING Plasticity			
23. SHAKE-TESTING comp. shear // Ca.			
24. DOMINANT MINERAL (S)			
25. SECONDARY MINERAL (S)			
26. OTHER MINERALS (S)			
27. REMARKS:	Items 11-20 determined in the lab The first 19 inches contained dark streaks. Core appears uniform		
Sediment Type	Clayey Silt	Clayey Silt	Clayey Silt

1. SAMPLE NUMBER	66-116-1 continued	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3824		3825
10. SUBSAMPLE DEPTH IN CORE (m.)	96-98		125-127
11. COLOR	Olive Gray 5141/1		Olive Gray 5141/1
12. DOOR			
13. NET DENSITY (lb./ft. ³)			
14. RIGIDNESS (cm)			
15. MAXIMUM PROSISTY (S)			
16. MINIMUM PROSISTY (S)			
17. WATER CONTENT (S)			
18. ORGANIC CARBON CONTENT (S)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
20. $\bar{x} \pm 2s$ (S)			
21. SPECIFICITY (vol.)			
22. SHAKE-TESTING Plasticity			
23. SHAKE-TESTING comp. shear // Ca.			
24. DOMINANT MINERAL (S)			
25. SECONDARY MINERAL (S)			
26. OTHER MINERALS (S)			
27. REMARKS:			
Sediment Type	Clayey Silt	Clayey Silt	Clayey Silt

1. SAMPLE NUMBER	66-117-1				5. SAMPLE TYPE	MILLERREEG			
2. LATITUDE	44°	10'	15" N	50°	50'	15" W	291		
3. LONGITUDE	68°	55'			7. CORE LENGTH (in.)	165			
4. DATE (MO., DAY, YEAR)	8 SEPTEMBER 1959				8. CORE PENETRATION (in.)	132			
9. LABORATORY NUMBERS	3977 *				9. DATE (MO., DAY, YEAR)	3975 *	3976 *	3977 *	
10. SUBSAMPLE DEPTH IN CORE (in.)	0-2	22-24	48-50		10. LABORATORY NUMBERS	406 GROW	407 GROW	408 GROW	
11. COLOR	406 GROW	(55V 4/2)	407 GROW	(55V 4/2)	11. COLOR	406 GROW	407 GROW	408 GROW	
12. 0000					12. 0000				
13. NET DENSITY (lb./ft. ³)					13. NET DENSITY (lb./ft. ³)				
14. RIGIDITY (cm)					14. RIGIDITY (cm)				
15. NUTRITION PROSITY (%)					15. NUTRITION PROSITY (%)				
16. MINIMUM PROSITY (%)					16. MINIMUM PROSITY (%)				
17. WATER CONTENT (%)					17. WATER CONTENT (%)				
18. ORGANIC CARBON CONTENT (%)					18. ORGANIC CARBON CONTENT (%)				
19. SIZE ANALYSIS AND STATISTICAL MEASURES					19. SIZE ANALYSIS AND STATISTICAL MEASURES				
a. -2 ₅ (s)					a. -2 ₅ (s)				
b. -2 ₅ to -1 ₅ (s)					b. -2 ₅ to -1 ₅ (s)				
c. -1 ₅ to 0 ₁ (s)					c. -1 ₅ to 0 ₁ (s)				
d. 0 ₁ to 1 ₅ (s)					d. 0 ₁ to 1 ₅ (s)				
e. 1 ₅ to 2 ₅ (s)					e. 1 ₅ to 2 ₅ (s)				
f. 2 ₅ to 3 ₅ (s)					f. 2 ₅ to 3 ₅ (s)				
g. 3 ₅ to 4 ₅ (s)					g. 3 ₅ to 4 ₅ (s)				
h. 4 ₅ to 6 ₅ (s)					h. 4 ₅ to 6 ₅ (s)				
i. 6 ₅ to 8 ₅ (s)					i. 6 ₅ to 8 ₅ (s)				
j. 8 ₅ to 10 ₅ (s)					j. 8 ₅ to 10 ₅ (s)				
k. 10 ₅ to 12 ₅ (s)					k. 10 ₅ to 12 ₅ (s)				
l. 12 ₅ to 14 ₅ (s)					l. 12 ₅ to 14 ₅ (s)				
m. 14 ₅ to 16 ₅ (s)					m. 14 ₅ to 16 ₅ (s)				
n. 16 ₅ to 18 ₅ (s)					n. 16 ₅ to 18 ₅ (s)				
o. 18 ₅ to 20 ₅ (s)					o. 18 ₅ to 20 ₅ (s)				
p. 20 ₅ to 22 ₅ (s)					p. 20 ₅ to 22 ₅ (s)				
q. 22 ₅ to 24 ₅ (s)					q. 22 ₅ to 24 ₅ (s)				
r. 24 ₅ to 26 ₅ (s)					r. 24 ₅ to 26 ₅ (s)				
s. 26 ₅ to 28 ₅ (s)					s. 26 ₅ to 28 ₅ (s)				
t. 28 ₅ to 30 ₅ (s)					t. 28 ₅ to 30 ₅ (s)				
u. 30 ₅ to 32 ₅ (s)					u. 30 ₅ to 32 ₅ (s)				
v. 32 ₅ to 34 ₅ (s)					v. 32 ₅ to 34 ₅ (s)				
w. 34 ₅ to 36 ₅ (s)					w. 34 ₅ to 36 ₅ (s)				
x. 36 ₅ to 38 ₅ (s)					x. 36 ₅ to 38 ₅ (s)				
y. 38 ₅ to 40 ₅ (s)					y. 38 ₅ to 40 ₅ (s)				
z. 40 ₅ to 42 ₅ (s)					z. 40 ₅ to 42 ₅ (s)				
aa. 42 ₅ to 44 ₅ (s)					aa. 42 ₅ to 44 ₅ (s)				
ab. 44 ₅ to 46 ₅ (s)					ab. 44 ₅ to 46 ₅ (s)				
ac. 46 ₅ to 48 ₅ (s)					ac. 46 ₅ to 48 ₅ (s)				
ad. 48 ₅ to 50 ₅ (s)					ad. 48 ₅ to 50 ₅ (s)				
ae. 50 ₅ to 52 ₅ (s)					ae. 50 ₅ to 52 ₅ (s)				
af. 52 ₅ to 54 ₅ (s)					af. 52 ₅ to 54 ₅ (s)				
ag. 54 ₅ to 56 ₅ (s)					ag. 54 ₅ to 56 ₅ (s)				
ah. 56 ₅ to 58 ₅ (s)					ah. 56 ₅ to 58 ₅ (s)				
ai. 58 ₅ to 60 ₅ (s)					ai. 58 ₅ to 60 ₅ (s)				
aj. 60 ₅ to 62 ₅ (s)					aj. 60 ₅ to 62 ₅ (s)				
ak. 62 ₅ to 64 ₅ (s)					ak. 62 ₅ to 64 ₅ (s)				
al. 64 ₅ to 66 ₅ (s)					al. 64 ₅ to 66 ₅ (s)				
am. 66 ₅ to 68 ₅ (s)					am. 66 ₅ to 68 ₅ (s)				
an. 68 ₅ to 70 ₅ (s)					an. 68 ₅ to 70 ₅ (s)				
ao. 70 ₅ to 72 ₅ (s)					ao. 70 ₅ to 72 ₅ (s)				
ap. 72 ₅ to 74 ₅ (s)					ap. 72 ₅ to 74 ₅ (s)				
aq. 74 ₅ to 76 ₅ (s)					aq. 74 ₅ to 76 ₅ (s)				
ar. 76 ₅ to 78 ₅ (s)					ar. 76 ₅ to 78 ₅ (s)				
as. 78 ₅ to 80 ₅ (s)					as. 78 ₅ to 80 ₅ (s)				
at. 80 ₅ to 82 ₅ (s)					at. 80 ₅ to 82 ₅ (s)				
au. 82 ₅ to 84 ₅ (s)					au. 82 ₅ to 84 ₅ (s)				
av. 84 ₅ to 86 ₅ (s)					av. 84 ₅ to 86 ₅ (s)				
aw. 86 ₅ to 88 ₅ (s)					aw. 86 ₅ to 88 ₅ (s)				
ax. 88 ₅ to 90 ₅ (s)					ax. 88 ₅ to 90 ₅ (s)				
ay. 90 ₅ to 92 ₅ (s)					ay. 90 ₅ to 92 ₅ (s)				
az. 92 ₅ to 94 ₅ (s)					az. 92 ₅ to 94 ₅ (s)				
ba. 94 ₅ to 96 ₅ (s)					ba. 94 ₅ to 96 ₅ (s)				
bb. 96 ₅ to 98 ₅ (s)					bb. 96 ₅ to 98 ₅ (s)				
bc. 98 ₅ to 100 ₅ (s)					bc. 98 ₅ to 100 ₅ (s)				
bd. 100 ₅ to 102 ₅ (s)					bd. 100 ₅ to 102 ₅ (s)				
be. 102 ₅ to 104 ₅ (s)					be. 102 ₅ to 104 ₅ (s)				
bf. 104 ₅ to 106 ₅ (s)					bf. 104 ₅ to 106 ₅ (s)				
bg. 106 ₅ to 108 ₅ (s)					bg. 106 ₅ to 108 ₅ (s)				
bh. 108 ₅ to 110 ₅ (s)					bh. 108 ₅ to 110 ₅ (s)				
bi. 110 ₅ to 112 ₅ (s)					bi. 110 ₅ to 112 ₅ (s)				
bj. 112 ₅ to 114 ₅ (s)					bj. 112 ₅ to 114 ₅ (s)				
bk. 114 ₅ to 116 ₅ (s)					bk. 114 ₅ to 116 ₅ (s)				
bl. 116 ₅ to 118 ₅ (s)					bl. 116 ₅ to 118 ₅ (s)				
bm. 118 ₅ to 120 ₅ (s)					bm. 118 ₅ to 120 ₅ (s)				
bn. 120 ₅ to 122 ₅ (s)					bn. 120 ₅ to 122 ₅ (s)				
bo. 122 ₅ to 124 ₅ (s)					bo. 122 ₅ to 124 ₅ (s)				
bp. 124 ₅ to 126 ₅ (s)					bp. 124 ₅ to 126 ₅ (s)				
bq. 126 ₅ to 128 ₅ (s)					bq. 126 ₅ to 128 ₅ (s)				
br. 128 ₅ to 130 ₅ (s)					br. 128 ₅ to 130 ₅ (s)				
bs. 130 ₅ to 132 ₅ (s)					bs. 130 ₅ to 132 ₅ (s)				
bt. 132 ₅ to 134 ₅ (s)					bt. 132 ₅ to 134 ₅ (s)				
bu. 134 ₅ to 136 ₅ (s)					bu. 134 ₅ to 136 ₅ (s)				
bv. 136 ₅ to 138 ₅ (s)					bv. 136 ₅ to 138 ₅ (s)				
bw. 138 ₅ to 140 ₅ (s)					bw. 138 ₅ to 140 ₅ (s)				
bx. 140 ₅ to 142 ₅ (s)					bx. 140 ₅ to 142 ₅ (s)				
by. 142 ₅ to 144 ₅ (s)					by. 142 ₅ to 144 ₅ (s)				
bz. 144 ₅ to 146 ₅ (s)					bz. 144 ₅ to 146 ₅ (s)				
ca. 146 ₅ to 148 ₅ (s)					ca. 146 ₅ to 148 ₅ (s)				
cb. 148 ₅ to 150 ₅ (s)					cb. 148 ₅ to 150 ₅ (s)				
cc. 150 ₅ to 152 ₅ (s)					cc. 150 ₅ to 152 ₅ (s)				
cd. 152 ₅ to 154 ₅ (s)					cd. 152 ₅ to 154 ₅ (s)				
ce. 154 ₅ to 156 ₅ (s)					ce. 154 ₅ to 156 ₅ (s)				
cf. 156 ₅ to 158 ₅ (s)					cf. 156 ₅ to 158 ₅ (s)				
cg. 158 ₅ to 160 ₅ (s)					cg. 158 ₅ to 160 ₅ (s)				
ch. 160 ₅ to 162 ₅ (s)					ch. 160 ₅ to 162 ₅ (s)				
ci. 162 ₅ to 164 ₅ (s)					ci. 162 ₅ to 164 ₅ (s)				
cj. 164 ₅ to 166 ₅ (s)					cj. 164 ₅ to 166 ₅ (s)				
ck. 166 ₅ to 168 ₅ (s)					ck. 166 ₅ to 168 ₅ (s)				
cl. 168 ₅ to 170 ₅ (s)					cl. 168 ₅ to 170 ₅ (s)				
cm. 170 ₅ to 172 ₅ (s)					cm. 170 ₅ to 172 ₅ (s)				
cn. 172 ₅ to 174 ₅ (s)					cn. 172 ₅ to 174 ₅ (s)				
co. 174 ₅ to 176 ₅ (s)					co. 174 ₅ to 176 ₅ (s)				
cp. 176 ₅ to 178 ₅ (s)					cp. 176 ₅ to 178 ₅ (s)				
cq. 178 ₅ to 180 ₅ (s)					cq. 178 ₅ to 180 ₅ (s)				
cr. 180 ₅ to 182 ₅ (s)					cr. 180 ₅ to 182 ₅ (s)				
cs. 182 ₅ to 184 ₅ (s)					cs. 182 ₅ to 184 ₅ (s)				
ct. 184 ₅ to 186 ₅ (s)					ct. 184 ₅ to 186 ₅ (s)				
cu. 186 ₅ to 188 ₅ (s)					cu. 186 ₅ to 188 ₅ (s)				
cv. 188 ₅ to 190 ₅ (s)					cv. 188 ₅ to 190 ₅ (s)				
cw. 190 ₅ to 192 ₅ (s)					cw. 190 ₅ to 192 ₅ (s)				
cx. 192 ₅ to 194 ₅ (s)					cx. 192 ₅ to 194 ₅ (s)				
cy. 194 ₅ to 196 ₅ (s)					cy. 194 ₅ to 196 ₅ (s)				
cz. 196 ₅ to 198 ₅ (s)					cz. 196 ₅ to 198 ₅ (s)				
ca. 198 ₅ to 200 ₅ (s)					ca. 198 ₅ to 200 ₅ (s)				
cb. 200 ₅ to 202 ₅ (s)					cb. 200 ₅ to 202 ₅ (s)				
cc. 202 ₅ to 204 ₅ (s)					cc. 202 ₅ to 204 ₅ (s)				
cd. 204 ₅ to 206 ₅ (s)					cd. 204 ₅ to 206 ₅ (s)				
ce. 206 ₅ to 208 ₅ (s)					ce. 206 ₅ to 208 ₅ (s)				
cf. 208 ₅ to 210 ₅ (s)					cf. 208 ₅ to 210 ₅ (s)				
cg. 210 ₅ to 212 ₅ (s)					cg. 210 ₅ to 212 ₅ (s)				
ch. 212 ₅ to 214 ₅ (s)					ch. 212 ₅ to 214 ₅ (s)				
ci. 214 ₅ to 2									

1. SAMPLE NUMBER	66-11B-1
2. LATITUDE	44° 10' 13" N
3. LONGITUDE	68° 53' 37" W
4. DATE (Day, month, year)	9 September 1959
5. LABORATORY NUMBERS	4913
6. WATER DEPTH (m.)	97.5
11. COLOR	Olive Gray 6141
12. DOOR	
13. WET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	84
b. -2 _φ to -1 _φ (%)	10
c. -1 _φ to 0 _φ (%)	6
d. 0 _φ to 1 _φ (%)	9
e. 1 _φ to 2 _φ (%)	11
f. 2 _φ to 3 _φ (%)	5
g. 3 _φ to 4 _φ (%)	2
h. 4 _φ to 5 _φ (%)	5
i. 5 _φ to 6 _φ (%)	9
j. > 6 _φ (%)	10
20. SUBSAMPLE DRY WEIGHT (gm)	128.99
21. SPECIFICITY (avg.)	
22. MINIMUM-TEMPERATURE Plasticity	Med
23. MINIMUM-TEMPERATURE Soil Cons.	196
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab	

Sediment Type: Pebbly Sand

1. SAMPLE NUMBER	66-11B-1
2. LATITUDE	44° 11' 47"
3. LONGITUDE	68° 53' 45"
4. DATE (Day, month, year)	9 September 1959
5. LABORATORY NUMBERS	4914
6. WATER DEPTH (m.)	271.3
11. COLOR	Olive Gray 6141
12. DOOR	
13. WET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	0 _φ
b. -2 _φ to -1 _φ (%)	3K _φ
c. -1 _φ to 0 _φ (%)	Med 796
d. 0 _φ to 1 _φ (%)	01% 627
e. 1 _φ to 2 _φ (%)	1
f. 2 _φ to 3 _φ (%)	1
g. 3 _φ to 4 _φ (%)	1
h. 4 _φ to 5 _φ (%)	18
i. 5 _φ to 6 _φ (%)	44
j. > 6 _φ (%)	35
20. SUBSAMPLE DRY WEIGHT (gm)	19.92
21. SPECIFICITY (avg.)	
22. MINIMUM-TEMPERATURE Plasticity	High
23. MINIMUM-TEMPERATURE Soil Cons.	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab	

Sediment Type: Clayey Silt

1. SAMPLE NUMBER	66-119-2
2. LATITUDE	44° 11' 47" N
3. LONGITUDE	68° 53' 45" W
4. DATE (Day, month, year)	9 September 1959
5. LABORATORY NUMBERS	3804
6. WATER DEPTH (m.)	0-2
11. COLOR	Olive Gray (51-46)
12. DOOR	
13. WET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	0 _φ
b. -2 _φ to -1 _φ (%)	5K _φ
c. -1 _φ to 0 _φ (%)	Med 780
d. 0 _φ to 1 _φ (%)	2
e. 1 _φ to 2 _φ (%)	01% 540
f. 2 _φ to 3 _φ (%)	2
g. 3 _φ to 4 _φ (%)	28
h. 4 _φ to 5 _φ (%)	32
i. 5 _φ to 6 _φ (%)	35
j. > 6 _φ (%)	38
20. SUBSAMPLE DRY WEIGHT (gm)	21.96
21. SPECIFICITY (avg.)	
22. MINIMUM-TEMPERATURE Plasticity	High
23. MINIMUM-TEMPERATURE Soil Cons.	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab	

Sediment Type: Clayey Silt

THE CORE CONTAINED DARK STREAMS ONLY 0-10 AND 120-124 INCHES.

1. SAMPLE NUMBERS	66-119-2 CONTINUED	5. SAMPLE TYPE	
2. LATITUDE		5. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		6. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3008		3008
10. SUBMERSE DEPTH IN CORE (m.)	96-98		122-124
11. COLOR			Olive Gray (5Y 4/6)
12. OTHER			
13. WET DENSITY (lb./ft. ³)			
14. RIGIDITY (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. ϕ_{-20} (%)	100	OC ₂	100
b. ϕ_{-20} to ϕ_{-40} (%)	840	ϕ_{-40}	54
c. ϕ_{-40} to ϕ_{-60} (%)	2	ϕ_{-60}	8.11
d. ϕ_{-60} to ϕ_{-80} (%)	6.27	ϕ_{-80}	0.2
e. ϕ_{-80} to ϕ_{-100} (%)	0.1	ϕ_{-100}	0.1
f. ϕ_{-100} to ϕ_{-200} (%)			
g. ϕ_{-200} to ϕ_{-400} (%)	20		23
h. ϕ_{-400} to ϕ_{-600} (%)	35		34
i. ϕ_{-600} to ϕ_{-800} (%)	43		40
j. ϕ_{-800} to ϕ_{-1000} (%)	2106		2414
20. SUBMERSE DRY WEIGHT (gm)			
21. SPECIFICITY (avg.)			
22. MINIMUM PLASTICITY	H ₂₀ 6		H ₂₀ 6
23. SUBMERSE TENSILE SHELL (cm)	0		0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:			

SEDIMENT TYPE: CLAYEY SILT

1. SAMPLE NUMBER	66-120-1		
2. LATITUDE	44° 13'	22° N	
3. LONGITUDE	68° 53'	56° W	
4. DATE (day, month, year)	9 September 1969		
9. LABORATORY NUMBERS			4915
10. SUBMERSE DEPTH IN CORE (m.)	26.7		
11. COLOR			
12. OTHER			Olive Gray 5Y 4/6
13. WET DENSITY (lb./ft. ³)			
14. RIGIDITY (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. ϕ_{-20} (%)			60
b. ϕ_{-20} to ϕ_{-40} (%)			54
c. ϕ_{-40} to ϕ_{-60} (%)			8.88
d. ϕ_{-60} to ϕ_{-80} (%)			0.1
e. ϕ_{-80} to ϕ_{-100} (%)			6.53
f. ϕ_{-100} to ϕ_{-200} (%)			0.1
g. ϕ_{-200} to ϕ_{-400} (%)			17
h. ϕ_{-400} to ϕ_{-600} (%)			42
i. ϕ_{-600} to ϕ_{-800} (%)			40
j. ϕ_{-800} to ϕ_{-1000} (%)			14.36
20. SUBMERSE DRY WEIGHT (gm)			
21. SPECIFICITY (avg.)			
22. MINIMUM PLASTICITY	H ₂₀ 6		H ₂₀ 6
23. SUBMERSE TENSILE SHELL (cm)	0		0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS: Items 11-22 determined in the lab			

SEDIMENT TYPE: CLAYEY SILT

1. SAMPLE NUMBER	66-120-2	5. SAMPLER TYPE	Kullenberg
2. LATITUDE	44° 13' 22" N	6. WATER DEPTH (m.)	26.7
3. LONGITUDE	68° 53' 56" W	7. CORE LENGTH (m.)	126
8. DATE (day, month, year)	9 September 1959	8. CORE PENETRATION (m.)	134
9. LABORATORY NUMBERS	4041	4042	4043
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2	22-24	46-48
11. COLOR	Olive Gray	Olive Gray	Olive Gray
12. ODOR	5Y4/1	5Y4/1	5Y4/1
13. WET DENSITY (lb./ft. ³)			
14. RIGIDITY (mm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2 _φ (%)	10 _φ	10 _φ	10 _φ
b. -2 _φ to -1 _φ (%)	34 _φ	35 _φ	35 _φ
c. -1 _φ to 0 _φ (%)	M _φ 7.80	M _φ 8.15	M _φ 8.75
d. 0 _φ to 1 _φ (%)	0 _φ 5.69	0 _φ 6.10	0 _φ 6.83
e. 1 _φ to 2 _φ (%)	> 6	0 _φ	0 _φ
f. 2 _φ to 3 _φ (%)			
g. 3 _φ to 4 _φ (%)			
h. 4 _φ to 5 _φ (%)	23	23	20
i. 5 _φ to 6 _φ (%)	33	35	36
j. > 6 _φ (%)	38	41	43
20. SUBSAMPLE DRY WEIGHT (gm)	12.27	15.86	11.78
21. SPECIFIC (avg.)			
22. REMARKS (type, plasticity)	H ₁₂ 6	H ₁₂ 6	H ₁₂ 6
23. SUBSTANCE (type, color, shell, etc.)	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS: Items 11-26 determined in the lab			
Numerous dark streaks in the first 46 inches.			

Sediment Type Clayey Silt Clayey Silt Clayey Silt

1. SAMPLE NUMBER	66-120-2 continued	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
8. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	4045	4046	4047
10. SUBSAMPLE DEPTH IN CORE (m.)	94-96	128-110	124-126
11. COLOR	Olive Gray	Olive Gray	Olive Gray
12. ODOR	5Y4/1	5Y4/1	5Y4/1
13. WET DENSITY (lb./ft. ³)			
14. RIGIDITY (mm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2 _φ (%)	10 _φ	10 _φ	10 _φ
b. -2 _φ to -1 _φ (%)	34 _φ	35 _φ	35 _φ
c. -1 _φ to 0 _φ (%)	M _φ 8.64	M _φ 8.57	M _φ 8.75
d. 0 _φ to 1 _φ (%)	0 _φ 6.33	0 _φ 6.65	0 _φ
e. 1 _φ to 2 _φ (%)	> 1	0 _φ	0 _φ
f. 2 _φ to 3 _φ (%)			
g. 3 _φ to 4 _φ (%)			
h. 4 _φ to 5 _φ (%)	18	21	18
i. 5 _φ to 6 _φ (%)	37	34	35
j. > 6 _φ (%)	44	45	46
20. SUBSAMPLE DRY WEIGHT (gm)	10.68	14.60	12.61
21. SPECIFIC (avg.)			
22. REMARKS (type, plasticity)	H ₁₂ 6	H ₁₂ 6	H ₁₂ 4
23. SUBSTANCE (type, color, shell, etc.)	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS: continued			

Sediment Type Clayey Silt Clayey Silt Clayey Silt

1. SAMPLE NO.	66-122-1
2. LATITUDE	44° 07' 39" N
3. LONGITUDE	69° 01' 58" W
4. DATE (day, month, year)	14 September 1959
5. LAB/SHIP'S NUMBER	410
6. WATER DEPTH (m.)	2550
7. COLOR	Olive Gray 5341

12. DRY
13. WET DENSITY (lb./ft.³)

14. RICHNESS (‰)

15. MAXIMUM POROSITY (%)

16. MINIMUM POROSITY (%)

17. WATER CONTENT (%)

18. ORGANIC CARBON CONTENT (%)

19. SIZE ANALYSIS AND STATISTICAL MEASURES

a. ϕ - ϕ_{25} (%)	29	352
b. ϕ_{25} to ϕ_{40} (%)	9	4040
c. ϕ_{40} to ϕ_{60} (%)	7	089
d. ϕ_{60} to ϕ_{80} (%)	8	0 - 228
e. ϕ_{80} to ϕ_{100} (%)	10	475
f. ϕ_{100} to ϕ_{200} (%)	7	
g. ϕ_{200} to ϕ_{400} (%)	1	
h. ϕ_{400} to ϕ_{600} (%)	10	
i. ϕ_{600} to ϕ_{800} (%)	10	
j. ϕ_{800} to ϕ_{1000} (%)	11	

20. SUBSAMPLE DRY WEIGHT (gm)	44.88
21. SPECIFICITY (ENV.)	
22. PLASTICITY (ENV.)	Med
23. SPREAD-TESTING (ENV.)	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS	Items 11-26 determined in the lab

The sample was composed of fine-grained siliceous crust with pebbles sand, silt and clay.

Sediment Type	Silty sand with pebbles
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1. SAMPLE NUMBER	66-123-1	SAMPLER TYPE	HYDRODOL
2. LATITUDE	44° 08' 52" N	3. WATER DEPTH (m.)	2561
3. LONGITUDE	69° 01' 52" W	4. CORE LENGTH (m.)	126
4. DATE (day, month, year)	14 September 1959	5. CORE PENETRATION (m.)	156
5. LAB/SHIP'S NUMBER	3906	6. LABORATORY NUMBER	3909
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2	7. WATER DEPTH (m.)	2426
11. COLOR	Olive Gray (5Y 3/2)	8. WATER DEPTH (m.)	48-50
12. DRY		9. WATER DEPTH (m.)	72-74
13. WET DENSITY (lb./ft. ³)		10. WATER DEPTH (m.)	Dark Yellowish Brown (10YR 4/2)
14. RICHNESS (‰)		11. WATER DEPTH (m.)	
15. MAXIMUM POROSITY (%)		12. WATER DEPTH (m.)	
16. MINIMUM POROSITY (%)		13. WATER DEPTH (m.)	
17. WATER CONTENT (%)		14. WATER DEPTH (m.)	
18. ORGANIC CARBON CONTENT (%)		15. WATER DEPTH (m.)	

11. COLOR	Asst. Geop. (57 3/2)	Asst. Geop. (57 4/1)	Dark, Yellowish Brown (10 YR 4/2)	Dark, Yellowish Brown (10 YR 4/2)
12. ODSR				
13. WET DENSITY (lb./ft. ³)				
14. SQUEEZE (%)				
15. MAXIMUM POROSITY (%)				
16. MINIMUM POROSITY (%)				
17. WATER CONTENT (%)				
18. ORGANIC CARBON CONTENT (%)				

20. SUBSAMPLE DRY WEIGHT (gm)	17	14	21	19
21. SPECIFICITY (ENV.)	40	39	36	38
22. PLASTICITY (ENV.)	41	46	41	42
23. SPREAD-TESTING (ENV.)	18.12	18.24	17.02	23.92
24. DOMINANT MINERAL (%)				
25. SECONDARY MINERAL (%)				
26. OTHER MINERALS (%)				
27. REMARKS	Items 11-26 DETERMINED IN THE LAB			

28. SUBSAMPLE DRY WEIGHT (gm)	17	14	21	19
29. SPECIFICITY (ENV.)	40	39	36	38
30. PLASTICITY (ENV.)	41	46	41	42
31. SPREAD-TESTING (ENV.)	18.12	18.24	17.02	23.92
32. DOMINANT MINERAL (%)				
33. SECONDARY MINERAL (%)				
34. OTHER MINERALS (%)				
35. REMARKS	Items 11-26 DETERMINED IN THE LAB			

Are streaks more scattered throughout the core.
Core appears uniform

Sediment Type	↓ COREY Silt	COREY Silt	COREY Silt	COREY Silt
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1. SAMPLE NUMBER	66-123-1: CONTINUED	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	39/0		
10. SUBSAMPLE DEPTH IN CORE (m.)	90-98		
11. COLOR	Dark yellowish (10/64 4/2)		
12. DOOR			
13. WET DENSITY (lb./ft ³)			
14. RIGIDITY (mm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. $\phi < \phi_p$ (%)	00 _p	00 _p	00 _p
b. $\phi_p < \phi_{p+1}$ (%)	00 _p	00 _p	00 _p
c. ϕ_{p+1} to ϕ_p (%)	00 _p	00 _p	00 _p
d. ϕ_p to ϕ_{p+1} (%)	00 _p	00 _p	00 _p
e. ϕ_p to ϕ_{p+1} (%)	00 _p	00 _p	00 _p
f. ϕ_p to ϕ_{p+1} (%)	00 _p	00 _p	00 _p
g. ϕ_p to ϕ_{p+1} (%)	00 _p	00 _p	00 _p
h. ϕ_p to ϕ_{p+1} (%)	00 _p	00 _p	00 _p
i. ϕ_p to ϕ_{p+1} (%)	00 _p	00 _p	00 _p
j. ϕ_p to ϕ_{p+1} (%)	00 _p	00 _p	00 _p
20. SUBSAMPLE DRY WEIGHT (mg)	1636	2466	
21. SPHERICITY (avg.)			
22. POHRETT-KEENE Plasticity	High	High	
23. POHRETT-KEENE Plasticity	0	0	
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:			

Sediment Type: Clayey Silt

1. SAMPLE NUMBER	66-124-1	5. SAMPLER TYPE	
2. LATITUDE	44° 10' 19" N	6. WATER DEPTH (m.)	
3. LONGITUDE	69° 01' 45" W	7. CORE LENGTH (m.)	
4. DATE (day, month, year)	14 September 1969	8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	4917		
10. SUBSAMPLE DEPTH IN CORE (m.)	29.5		
11. COLOR	Olive Black (5Y 2/1)		
12. DOOR			
13. WET DENSITY (lb./ft ³)			
14. RIGIDITY (mm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. $\phi < \phi_p$ (%)	00 _p	00 _p	00 _p
b. $\phi_p < \phi_{p+1}$ (%)	00 _p	00 _p	00 _p
c. ϕ_{p+1} to ϕ_p (%)	00 _p	00 _p	00 _p
d. ϕ_p to ϕ_{p+1} (%)	00 _p	00 _p	00 _p
e. ϕ_p to ϕ_{p+1} (%)	00 _p	00 _p	00 _p
f. ϕ_p to ϕ_{p+1} (%)	00 _p	00 _p	00 _p
g. ϕ_p to ϕ_{p+1} (%)	00 _p	00 _p	00 _p
h. ϕ_p to ϕ_{p+1} (%)	00 _p	00 _p	00 _p
i. ϕ_p to ϕ_{p+1} (%)	00 _p	00 _p	00 _p
j. ϕ_p to ϕ_{p+1} (%)	00 _p	00 _p	00 _p
20. SUBSAMPLE DRY WEIGHT (mg)	22.02		
21. SPHERICITY (avg.)			
22. POHRETT-KEENE Plasticity	High		
23. POHRETT-KEENE Plasticity	0		
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:	Items 11-26 determined in the lab		

Sediment Type: Clayey Silt

1. SAMPLE NUMBER	66-RV-2	5. SAMPLER TYPE	HULLENBERG
2. LATITUDE	44° 10' 19" N	5. WATER DEPTH (m.)	25.3
3. LONGITUDE	69° 01' 45" W	7. CORE LENGTH (m.)	126
4. DATE (day, month, year)	14 SEPTEMBER 1959	8. CORE PENETRATION (m.)	144
9. LABORATORY NUMBERS	3911	3912	3913
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2	13-15	24-28
11. COLOR	Dark Gray (5Y 4/2)	Dark Hummock Brown (10R 4/2)	Dark Hummock Brown (10R 4/2)
12. 0009			
13. NET DENSITY (m./m ³)			
14. RESISTANCE (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2 (s)	0.5	0.5	0.5
b. 2 to 10 (s)	8.86	8.59	8.54
c. 10 to 60 (s)	0.1	0.1	0.1
d. 60 to 100 (s)	206	6.91	2
e. 10 to 20 (s)			
f. 2 to 10 (s)			
g. 2 to 10 (s)			
h. 10 to 60 (s)	12	13	14
i. 60 to 100 (s)	39	43	41
j. > 100 (s)	47	43	43
20. SUBSAMPLE DRY WEIGHT (gm)	1968	1408	1621
21. SPHERICITY (mg)			
22. MINERALOGY	High	High	High
23. SHAPE-TEXTURE	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS	ITEMS 11-26 DETERMINED IN THE LAB. THE CORE CONTAINED HEAVY DARK STREAKS IN THE FIRST 21 INCHES 28-108" area of soft mud.		

1. SAMPLE NUMBER	66-RV-2	5. SAMPLER TYPE	CMJT
2. LATITUDE		5. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3915	3916	3917
10. SUBSAMPLE DEPTH IN CORE (m.)	72-74	75-82	105-108
11. COLOR	Dark Hummock Brown (10R 4/2)	Dark Hummock Brown (10R 4/2)	Dark Hummock Brown (10R 4/2)
12. 0009			
13. NET DENSITY (m./m ³)			
14. RESISTANCE (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2 (s)	0.5	0.5	0.5
b. 2 to 10 (s)	8.86	8.85	8.75
c. 10 to 60 (s)	0.1	0.1	0.1
d. 60 to 100 (s)	2	0.695	1
e. 10 to 20 (s)			
f. 2 to 10 (s)			
g. 2 to 10 (s)			
h. 10 to 60 (s)	12	13	14
i. 60 to 100 (s)	40	38	39
j. > 100 (s)	46	48	46
20. SUBSAMPLE DRY WEIGHT (gm)	1556	1698	1548
21. SPHERICITY (mg)			
22. MINERALOGY	High	High	High
23. SHAPE-TEXTURE	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS	* MANY DARK STREAKS IN SAMPLE.		

SEDIMENT TYPE CLAYEY SILT CLAYEY SILT CLAYEY SILT

SEDIMENT TYPE CLAYEY SILT & CLAYEY SILT CLAYEY SILT CLAYEY SILT

1. SAMPLE NUMBER	66-124-2 - CONT
2. LATITUDE	44° 13' 24" N
3. LONGITUDE	69° 01' 31" W
4. DATE (Day, month, year)	14 September 1969
5. LABORATORY NUMBERS	3989 *
6. SUBSAMPLE DEPTH IN CORE (in.)	122 - 126
7. COLOR	Dark Green (5G 4.1)
8. DOOR	
9. NET DENSITY (lb./ft ³)	
10. FUGIDENCE (cm)	
11. MAXIMUM POROSITY (%)	
12. MINIMUM POROSITY (%)	
13. WATER CONTENT (%)	
14. ORGANIC CARBON CONTENT (%)	
15. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. ϕ to ϕ_2 (%)	0 ₀
b. ϕ_2 to ϕ_1 (%)	5 ₀
c. ϕ_1 to ϕ_0 (%)	ME, 8.93
d. ϕ_0 to ϕ_3 (%)	1 0 ₁ , 9.40
e. ϕ_3 to ϕ_4 (%)	0 ₀
f. ϕ_4 to ϕ_5 (%)	
g. ϕ_5 to ϕ_6 (%)	12
h. ϕ_6 to ϕ_7 (%)	39
i. ϕ_7 to ϕ_8 (%)	47
20. SUBSAMPLE DRY WEIGHT (gm)	16.83
21. SPECIFICITY (vol.)	
22. MINIMUM PLASTICITY	High
23. SUBSAMPLING PLASTICITY	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS:	

SEDIMENT TYPE: CLAYEY SILT

1. SAMPLE NUMBER	66-126-1
2. LATITUDE	44° 13' 24" N
3. LONGITUDE	69° 01' 31" W
4. DATE (Day, month, year)	14 September 1969
5. LABORATORY NUMBERS	4918
6. SUBSAMPLE DEPTH IN CORE (in.)	126.7
7. COLOR	Olive Gray 5Y4/1, Olive Black 5Y2/1
8. DOOR	foul
9. NET DENSITY (lb./ft ³)	
10. FUGIDENCE (cm)	
11. MAXIMUM POROSITY (%)	
12. MINIMUM POROSITY (%)	
13. WATER CONTENT (%)	
14. ORGANIC CARBON CONTENT (%)	
15. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. ϕ to ϕ_2 (%)	0 ₀ , 1.84
b. ϕ_2 to ϕ_1 (%)	5 ₀ , 40.16
c. ϕ_1 to ϕ_0 (%)	ME, 5.24
d. ϕ_0 to ϕ_3 (%)	1 0 ₁ , 3.56
e. ϕ_3 to ϕ_4 (%)	3 0 ₁ , 7.90
f. ϕ_4 to ϕ_5 (%)	9
g. ϕ_5 to ϕ_6 (%)	22
h. ϕ_6 to ϕ_7 (%)	20
i. ϕ_7 to ϕ_8 (%)	21
j. ϕ_8 to ϕ_9 (%)	23
20. SUBSAMPLE DRY WEIGHT (gm)	33.87
21. SPECIFICITY (vol.)	
22. MINIMUM PLASTICITY	Med.
23. SUBSAMPLING PLASTICITY	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS:	Items 11-26 determined in the lab

SEDIMENT TYPE: Silty Mud

1. SAMPLE NUMBER	66-126-2
2. LATITUDE	44° 13' 24" N
3. LONGITUDE	69° 01' 31" W
4. DATE (Day, month, year)	14 September 1969
5. LABORATORY NUMBERS	3712 *
6. SUBSAMPLE DEPTH IN CORE (in.)	12 - 24
7. COLOR	Dark Greenish (5G 4.1)
8. DOOR	
9. NET DENSITY (lb./ft ³)	
10. FUGIDENCE (cm)	
11. MAXIMUM POROSITY (%)	
12. MINIMUM POROSITY (%)	
13. WATER CONTENT (%)	
14. ORGANIC CARBON CONTENT (%)	
15. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. ϕ to ϕ_2 (%)	0 ₀
b. ϕ_2 to ϕ_1 (%)	5 ₀
c. ϕ_1 to ϕ_0 (%)	ME, 8.35
d. ϕ_0 to ϕ_3 (%)	1 0 ₁ , 6.55
e. ϕ_3 to ϕ_4 (%)	0 ₀
f. ϕ_4 to ϕ_5 (%)	
g. ϕ_5 to ϕ_6 (%)	13
h. ϕ_6 to ϕ_7 (%)	41
i. ϕ_7 to ϕ_8 (%)	44
20. SUBSAMPLE DRY WEIGHT (gm)	39.15
21. SPECIFICITY (vol.)	
22. MINIMUM PLASTICITY	High
23. SUBSAMPLING PLASTICITY	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS:	Items 11-26 determined in the lab

SEDIMENT TYPE: CLAYEY SILT

[illegible]

1. SAMPLE NUMBER	66-156-2 CONTINUED	5. SIMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3720*	9. 3722*	
10. SUBSAMPLE DEPTH IN CORE (m.)	60-61	10. 91-94	
11. COLOR	Grayish Black	11. Moisture Data Color	
12. COLOR	N2	12. N2	
13. ODR			
14. WE DENSITY (lb./ft. ³)			
15. R (G/DIST) (%)			
16. MAXIMUM POROSITY (%)			
17. MINIMUM POROSITY (%)			
18. WATER CONTENT (%)			
19. ORGANIC CARBON CONTENT (%)			
20. SITE ANALYSIS AND STATISTICAL MEASURES			
a. \bar{x} , σ , σ^2 (s)	10.	10.	10.
b. \bar{x} , σ , σ^2 (s)	10.	10.	10.
c. \bar{x} , σ , σ^2 (s)	10.	10.	10.
d. \bar{x} , σ , σ^2 (s)	10.	10.	10.
e. \bar{x} , σ , σ^2 (s)	10.	10.	10.
f. \bar{x} , σ , σ^2 (s)	10.	10.	10.
g. \bar{x} , σ , σ^2 (s)	10.	10.	10.
h. \bar{x} , σ , σ^2 (s)	10.	10.	10.
i. \bar{x} , σ , σ^2 (s)	10.	10.	10.
j. \bar{x} , σ , σ^2 (s)	10.	10.	10.
21. SPECIFICITY (mg/g)			
22. \bar{x} , σ , σ^2 (s)			
23. \bar{x} , σ , σ^2 (s)			
24. \bar{x} , σ , σ^2 (s)			
25. \bar{x} , σ , σ^2 (s)			
26. OTHER MINERALS (%)			
27. REMARKS			

SECTION	DEPTH	SOIL	REMARKS
1	0-10	CLAYEY SILT	CLAYEY SILT
	10-20	CLAYEY SILT	
	20-30	CLAYEY SILT	
	30-40	CLAYEY SILT	
2	0-10	CLAYEY SILT	CLAYEY SILT
	10-20	CLAYEY SILT	
	20-30	CLAYEY SILT	
	30-40	CLAYEY SILT	
3	0-10	CLAYEY SILT	CLAYEY SILT
	10-20	CLAYEY SILT	
	20-30	CLAYEY SILT	
	30-40	CLAYEY SILT	
4	0-10	CLAYEY SILT	CLAYEY SILT
	10-20	CLAYEY SILT	
	20-30	CLAYEY SILT	
	30-40	CLAYEY SILT	
5	0-10	CLAYEY SILT	CLAYEY SILT
	10-20	CLAYEY SILT	
	20-30	CLAYEY SILT	
	30-40	CLAYEY SILT	
6	0-10	CLAYEY SILT	CLAYEY SILT
	10-20	CLAYEY SILT	
	20-30	CLAYEY SILT	
	30-40	CLAYEY SILT	
7	0-10	CLAYEY SILT	CLAYEY SILT
	10-20	CLAYEY SILT	
	20-30	CLAYEY SILT	
	30-40	CLAYEY SILT	
8	0-10	CLAYEY SILT	CLAYEY SILT
	10-20	CLAYEY SILT	
	20-30	CLAYEY SILT	
	30-40	CLAYEY SILT	
9	0-10	CLAYEY SILT	CLAYEY SILT
	10-20	CLAYEY SILT	
	20-30	CLAYEY SILT	
	30-40	CLAYEY SILT	
10	0-10	CLAYEY SILT	CLAYEY SILT
	10-20	CLAYEY SILT	
	20-30	CLAYEY SILT	
	30-40	CLAYEY SILT	

SEDIMENT TYPE			
	CLAYEY SILT	CLAYEY SILT	SILT/CLAY MUD

1. SAMPLE NUMBER	66-127-1	5. SAMPLER TYPE	MULLERBERG
2. LATITUDE	44° 13' 18" N	6. WATER DEPTH (m.)	29.2
3. LONGITUDE	68° 59' 46" W	7. CORE LENGTH (m.)	126
4. DATE (mo., month, year)	SEPTEMBER 1959	8. CORE PENETRATION (m.)	156
9. LABORATORY NUMBERS	3933 #		
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2		
11. COLOR	White Gray (SV 4%)		
12. DOOR			
13. WET DENSITY (lb./ft ³)			
14. RIGIDITY (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
20. SUBSAMPLE DRY WEIGHT (gm)			
21. SPHERICITY (ave)			
22. PLASTICITY			
23. SHEAR STRESS (lb./in. Shear/Cm)			
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:	TIPS 11-26 DETERMINED IN THE LAB 0-11 inches contained dark layers and streaks. last 15 inches were consolidated		

1. SAMPLE NUMBER	66-127-1 : CONTINUED	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (mo., month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3936		
10. SUBSAMPLE DEPTH IN CORE (m.)	98-99		
11. COLOR	White Gray (SV 4%)		
12. DOOR			
13. WET DENSITY (lb./ft ³)			
14. RIGIDITY (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
20. SUBSAMPLE DRY WEIGHT (gm)			
21. SPHERICITY (ave)			
22. PLASTICITY			
23. SHEAR STRESS (lb./in. Shear/Cm)			
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:	* Sample contained dark streaks.		

SEDIMENT TYPE	CONY Silt	CONY Silt	CONY Silt	CONY Silt
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SEDIMENT TYPE	CONY Silt	CONY Silt
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[illegible]

1. SAMPLE NUMBER	66-129-2 : CONTINUED	5. SAMPLER TYPE				
2. LATITUDE		5. WATER DEPTH (m.)				
3. LONGITUDE		7. CORE LENGTH (in.)				
4. DATE (Day, month, year)		8. CORE PENETRATION (in.)				
9. LABORATORY NUMBERS	3916 40-42 Dive Bow (31-41)	3917 20-22 Dive Bow (31-41)	3918 22-74 Dive Bow (31-42)			
10. SUBSAMPLE DEPTH IN CORE (in.)						
11. COLOR						
12. ODR						
13. WET DENSITY (lb./ft. ³)						
14. RIGIDNESS (mm)						
15. MAXIMUM POROSITY (%)						
16. MINIMUM POROSITY (%)						
17. WATER CONTENT (%)						
18. ORGANIC CARBON CONTENT (%)						
19. SIZE ANALYSIS AND STATISTICAL MEASURES						
a. ϕ_{-2} to ϕ_{-4} (%)	2	100, 286	5	100, 342	17	100, 385
b. ϕ_{-2} to ϕ_{-4} (%)	3	50, 1033	3	50, 1047	3	50, 1049
c. ϕ_{-1} to ϕ_{-2} (%)	4	100, 541	3	100, 549	3	100, 549
d. ϕ_{-1} to ϕ_{-2} (%)	5	100, 278	4	100, 254	4	100, 250
e. ϕ_{-1} to ϕ_{-2} (%)	6	100, 871	5	100, 857	4	100, 820
f. ϕ_{-1} to ϕ_{-2} (%)	7		5	6	5	
g. ϕ_{-1} to ϕ_{-2} (%)	9		6	7	9	
h. ϕ_{-1} to ϕ_{-2} (%)	19	20	20	17	17	
i. ϕ_{-1} to ϕ_{-2} (%)	22	22	23	23	20	
j. ϕ_{-1} to ϕ_{-2} (%)	22	26	22	22	21	
20. SUBSAMPLE DRY WEIGHT (mg)	3256	3518	2517	4258		
21. SPECIFICITY (mg)						
22. MINIMUM POROSITY (%)	Med.	Med.	Med.	Med.		
23. SUBSAMPLE RIGIDNESS (mm)	0	0	0	0		
24. DOMINANT MINERAL (%)						
25. SECONDARY MINERAL (%)						
26. OTHER MINERALS (%)						
27. REMARKS:	* sample contained dark streaks. 70-80" black layers 70-79" layer of gray clay.					
SEDIMENT TYPE	Silty Mud	Silty Mud	Silty Mud	Silty Mud	Silty Mud	Silty Mud

1. SAMPLE NUMBER	66-130-1	5. SAMPLER TYPE	Kullenberg
2. LATITUDE	44	5. WATER DEPTH (m.)	26.7
3. LONGITUDE	68	7. CORE LENGTH (in.)	91(2)
4. DATE (day, month, year)	14 September 1969	8. CORE PENETRATION (in.)	132
9. LABORATORY NUMBERS	4022	4023	4024
10. SUBSAMPLE DEPTH IN CORE (in.)	5-7	13-15	15-17
11. COLOR	Medium Dark Gray	Medium Dark Gray	Medium Dark Gray
12. ODR			
13. WET DENSITY (lb./ft. ³)			
14. RIGIDNESS (mm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. ϕ_{-2} to ϕ_{-4} (%)	10	100, 180	100, 190
b. ϕ_{-2} to ϕ_{-4} (%)	8.23	100, 180	100, 190
c. ϕ_{-1} to ϕ_{-2} (%)	1	100, 5.72	100, 5.52
d. ϕ_{-1} to ϕ_{-2} (%)	1	100, 5.72	100, 5.52
e. ϕ_{-1} to ϕ_{-2} (%)	1	100, 5.72	100, 5.52
f. ϕ_{-1} to ϕ_{-2} (%)	1	100, 5.72	100, 5.52
g. ϕ_{-1} to ϕ_{-2} (%)	1	100, 5.72	100, 5.52
h. ϕ_{-1} to ϕ_{-2} (%)	1	100, 5.72	100, 5.52
i. ϕ_{-1} to ϕ_{-2} (%)	1	100, 5.72	100, 5.52
j. ϕ_{-1} to ϕ_{-2} (%)	1	100, 5.72	100, 5.52
20. SUBSAMPLE DRY WEIGHT (mg)	28.94	13.83	22.94
21. SPECIFICITY (mg)			
22. MINIMUM POROSITY (%)	High	High	Med
23. SUBSAMPLE RIGIDNESS (mm)	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:	Items 11-26 determined in the lab Composition of mud 5-15" Soft gray mud with black streaks 15-19" Gray and olive mud with granules 19-32" Gray and olive mud		
SEDIMENT TYPE	Clayey Silt	Clayey Silt	Clayey Silt

1. SAMPLE NUMBER	66-130-1 continued	5. SAMPLER TYPE	
2. LATITUDE		5. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	4076*	4077	4078
10. SUBSAMPLE DEPTH IN CORE (m.)	30-32	32-34	48-52
11. COLOR	Olive Gray 5Y4/6 Medium Dark Gray N4	Olive Gray 5Y4/6 Medium Dark Gray N4	Olive Gray 5Y4/6 Medium Dark Gray N4
12. DUNE			
13. NET DENSITY (lb./ft ³)			
14. FLODENSE (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
20. SUBSAMPLE DRY WEIGHT (gm)			
21. SPECIFIC GRAVITY			
22. SUSPENSIBILITY			
23. SENSITIVITY			
24. DRY HEAT TREATMENT			
25. SECONDARY MINERALS (%)			
26. OTHER MINERALS (%)			
27. REMARKS			

27. REMARKS	continued
Composition	
30-60	Gray mud with numerous dark bands and streaks
48-52	Soft, clayey silt with occasional areas of clay
at 52	Hard, broken clay
Sediment type	Clayey silt Clayey silt Clayey silt Silty Mud

1. SAMPLE NUMBER	66-130-1 continued	5. SAMPLER TYPE	
2. LATITUDE		5. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	4080	4081	4082
10. SUBSAMPLE DEPTH IN CORE (m.)	60-62	72-74	88-91(2)
11. COLOR	Olive Gray 5Y4/6 Moderate Olive Brown 5Y4/4	Olive Gray 5Y4/6	Olive Gray 5Y4/6
12. DUNE			
13. NET DENSITY (lb./ft ³)			
14. FLODENSE (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
20. SUBSAMPLE DRY WEIGHT (gm)			
21. SPECIFIC GRAVITY			
22. SUSPENSIBILITY			
23. SENSITIVITY			
24. DRY HEAT TREATMENT			
25. SECONDARY MINERALS (%)			
26. OTHER MINERALS (%)			
27. REMARKS			

27. REMARKS	continued
Composition	
60-62	Soft, olive clay
72-74	Mostly clayey silt with occasional areas of clay
88-91(2)	The top 27 inches of the core maybe missing. The depth recordings may actually be 27 inches off.
Sediment type	Silty Mud Silty Sand Silty Sand

1. SAMPLE NUMBER	66-129-2 - CONTINUED	5. SAMPLER TYPE				
2. LATITUDE		5. WATER DEPTH (m.)				
3. LONGITUDE		7. CORE LENGTH (m.)				
4. DATE (day, month, year)		8. CORE PENETRATION (m.)				
9. LABORATORY NUMBERS	3916 40-42	3917 92-92	3918 92-92			
10. SUBSAMPLE DEPTH IN CORE (m.)	0.05 to 0.10	0.05 to 0.10	0.05 to 0.10			
11. COLOR	Dark Gray (5Y 4/1)	Dark Gray (5Y 4/1)	Dark Gray (5Y 4/1)			
12. MOOR						
13. NET DENSITY (lb./ft ³)						
14. RIDGEAGE (m)						
15. MAXIMUM PROSITY (%)						
16. MINIMUM PROSITY (%)						
17. WATER CONTENT (%)						
18. ORGANIC CARBON CONTENT (%)						
19. SIZE ANALYSIS AND STATISTICAL MEASURES						
a. < 2 ₅ (%)	2	10.296	5	10.302	17	10.385
b. 2 ₅ to 1 ₅ (%)	3	14.33	3	14.33	3	14.33
c. 1 ₅ to 0 ₅ (%)	4	14.33	3	14.33	3	14.33
d. 0 ₅ to 1 ₅ (%)	5	1.27	4	1.254	4	1.254
e. 1 ₅ to 2 ₅ (%)	6	8.71	5	8.57	5	8.57
f. 2 ₅ to 3 ₅ (%)	7		5	6	5	6
g. 3 ₅ to 4 ₅ (%)	9	6	6	7	7	7
h. 4 ₅ to 5 ₅ (%)	19	20	20	20	17	17
i. 5 ₅ to 6 ₅ (%)	22	22	22	23	20	20
j. > 6 ₅ (%)	22	26	26	22	21	21
20. SUBSAMPLE DRY WEIGHT (mg)	32.56	35.18	25.17	42.58		
21. SPECIFICITY (mg)						
22. PLASTICITY	Med.	Med.	Med.	Med.		
23. SHREDDING-RESISTANCE (mm)	0	0	0	0		
24. DOMINANT MINERAL (%)						
25. SECONDARY MINERAL (%)						
26. OTHER MINERALS (%)						
27. REMARKS:	* sample contained dark streaks. 72-82 Black layers 78-79 layer of gray clay.					
SEDIMENT TYPE	Silty Mud	Silty Mud	Silty Mud	Silty Mud	Silty Mud	Silty Mud

1. SAMPLE NUMBER	66-130-1	5. SAMPLER TYPE	Kullenberg
2. LATITUDE	44° 17'	5. WATER DEPTH (m.)	26.7
3. LONGITUDE	68° 57'	7. CORE LENGTH (m.)	91(2)
4. DATE (day, month, year)	14 September 1959	8. CORE PENETRATION (m.)	132
9. LABORATORY NUMBERS		4023	4074
10. SUBSAMPLE DEPTH IN CORE (m.)		5-7	13-15
11. COLOR	Medium Dark Gray # N4	Medium Dark Gray # N4	Olive Gray # N4
12. MOOR			Medium Dark Gray # N4
13. NET DENSITY (lb./ft ³)			
14. RIDGEAGE (m)			
15. MAXIMUM PROSITY (%)			
16. MINIMUM PROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2 ₅ (%)		10	8
b. 2 ₅ to 1 ₅ (%)		10	1
c. 1 ₅ to 0 ₅ (%)		8.28	1
d. 0 ₅ to 1 ₅ (%)		1	1
e. 1 ₅ to 2 ₅ (%)		6.38	1
f. 2 ₅ to 3 ₅ (%)		3	2
g. 3 ₅ to 4 ₅ (%)		1	2
h. 4 ₅ to 5 ₅ (%)		8	26
i. 5 ₅ to 6 ₅ (%)		42	32
j. > 6 ₅ (%)		38	40
20. SUBSAMPLE DRY WEIGHT (mg)		26.94	13.83
21. SPECIFICITY (mg)			22.94
22. PLASTICITY	High	High	Med
23. SHREDDING-RESISTANCE (mm)	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:	* 11-20 determined in the lab composition		
SEDIMENT TYPE	Clayey Silt	Clayey Silt	Clayey Silt

1. SAMPLE NUMBER	66-130-1 continued		
2. LAB. #			
3. LOCATION			
4. DATE (Day, month, year)			
5. LABORATORY NUMBER	4076*	4077	4078
6. SUBSURFACE DEPTH IN CORE (m.)	30-32	32-34	43-52
7. COLOR	Olive Gray silt Medium Dark Gray N4	Olive Gray silt Medium Dark Gray N4	Olive Gray silt Medium Dark Gray N4
8. CORRECTION			
9. WET DENSITY (lb./ft ³)			
10. RIGIDITY (mm)			
11. MINERAL PROSPECT (1)			
12. MINERAL PROSPECT (2)			
13. WATER CONTENT (%)			
14. ORGANIC CARBON CONTENT (%)			
15. SITE ANALYSIS AND STATISTICAL MEASURES			
16. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.			
17. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.			
18. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.			
19. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.			
20. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.			
21. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.			
22. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.			
23. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.			
24. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.			
25. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.			
26. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.			
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1. SAMPLE NUMBER	5. SAMPLER TYPE
66-130-1 continued	
2. LATITUDE	7. WATERS DEPTH (m.)
3. LONGITUDE	7. CORE LENGTH (m.)
4. DATE (Day, month, year)	8. CORE PENETRATION (m.)
9. LABORATORY NUMBERS	4080 4081 4082
10. SUBSAMPLE DEPTH IN CORE (m.)	60-62 72-74 89-91(2)
11. COLOR	Olive Gray, silt/clay Moderate Olive Brown 5Y4/4
12. DODR	Olive Gray 5Y4/1
13. NET DENSITY (kg./ft. ³)	
14. RIGIDITY (cm)	
15. WATHEM PROSITY (%)	
16. MITHUM PROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. ϕ_{1-2} (%)	ϕ_{1-2} 2.05
b. ϕ_{1-2} to ϕ_{1-4} (%)	ϕ_{1-2} 1.99 2
c. ϕ_{1-4} to ϕ_{1-6} (%)	ϕ_{1-4} 0.05 57 40.98
d. ϕ_{1-6} to ϕ_{1-8} (%)	ϕ_{1-6} 6.10 1 36.2 2.45 1
e. ϕ_{1-8} to ϕ_{1-10} (%)	ϕ_{1-8} 3.10 2 01.1 97 3
f. ϕ_{1-10} to ϕ_{1-12} (%)	ϕ_{1-10} 9.00 26 02.4 95 34
g. ϕ_{1-12} to ϕ_{1-14} (%)	ϕ_{1-12} 35 28
h. ϕ_{1-14} to ϕ_{1-16} (%)	ϕ_{1-14} 10 10 3
i. ϕ_{1-16} to ϕ_{1-18} (%)	ϕ_{1-16} 15 6 7
j. ϕ_{1-18} to ϕ_{1-20} (%)	ϕ_{1-18} 20 10 8
k. ϕ_{1-20} to ϕ_{1-22} (%)	ϕ_{1-20} 25 11 9
20. SUSPENSIBLE SOFT WEIGHT (mg)	16.11 29.49 31.56
21. SPECIFIC (g./cc.)	
22. WATERS DEPTH Plasticity	Low 77.00
23. WATERS DEPTH Plasticity	0 0 0
24. DOWNHILL MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. WATERS DEPTH Composition	
60-67	Soft, olive clay
67-91(2)	Plastic clayey silt with occasional areas of clay
The top 27 inches of the core may be missing. The depth recordings may actually be 27 inches off.	
Sediment type	Silty Mud Silty Sand Silty Sand

1. SAMPLE NUMBER	66-131-1	5. SAMPLER TYPE	FULLERBERG
2. LATITUDE	44 19 01 N	6. WATER DEPTH (m.)	342
3. LONGITUDE	68 56 55 W	7. CORE LENGTH (m.)	1.24
4. DATE (day, month, year)	14 SEPTEMBER 1959	8. CORE PENETRATION (m.)	132
9. LABORATORY NUMBERS	3890 *	9. LABORATORY NUMBERS	3893
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2	10. SUBSAMPLE DEPTH IN CORE (m.)	24-26
11. COLOR	Dark Brown (50-60) MUD GRAY (50-60) MUD	11. COLOR	Muddy Gray (50-60) MUD Olive Green (50-60)
12. DOOR		12. DOOR	
13. NET DENSITY (lb./ft. ³)		13. NET DENSITY (lb./ft. ³)	
14. HIDE/REUSE (mm)		14. HIDE/REUSE (mm)	
15. NATIUM POROSITY (%)		15. NATIUM POROSITY (%)	
16. HIDE/REUSE POROSITY (%)		16. HIDE/REUSE POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL HEADERS			
a. -2 ₅ (s)	0 ₅	0 ₅	0 ₅
b. -2 ₅ to -1 ₅ (s)	5 ₅	5 ₅	5 ₅
c. -1 ₅ to 0 ₅ (s)	10 ₅ 8.46	10 ₅ 8.50	1
d. 0 ₅ to 1 ₅ (s)	0 ₅ 6.40	0 ₅ 6.65	4
e. 1 ₅ to 2 ₅ (s)	2	0 ₅ 6.96	0 ₅ 6.47
f. 2 ₅ to 3 ₅ (s)	1	0 ₅	3
g. 3 ₅ to 4 ₅ (s)	3	0 ₅	0 ₅
h. 4 ₅ to 5 ₅ (s)	16	13	15
i. 5 ₅ to 6 ₅ (s)	36	41	38
j. 6 ₅ to 7 ₅ (s)	43	44	43
k. 7 ₅ to 8 ₅ (s)	29.18	28.29	21.57
l. 8 ₅ to 9 ₅ (s)			23.90
m. 9 ₅ to 10 ₅ (s)			
n. 10 ₅ to 11 ₅ (s)			
o. 11 ₅ to 12 ₅ (s)			
p. 12 ₅ to 13 ₅ (s)			
q. 13 ₅ to 14 ₅ (s)			
r. 14 ₅ to 15 ₅ (s)			
s. 15 ₅ to 16 ₅ (s)			
t. 16 ₅ to 17 ₅ (s)			
u. 17 ₅ to 18 ₅ (s)			
v. 18 ₅ to 19 ₅ (s)			
w. 19 ₅ to 20 ₅ (s)			
x. 20 ₅ to 21 ₅ (s)			
y. 21 ₅ to 22 ₅ (s)			
z. 22 ₅ to 23 ₅ (s)			
aa. 23 ₅ to 24 ₅ (s)			
ab. 24 ₅ to 25 ₅ (s)			
ac. 25 ₅ to 26 ₅ (s)			
ad. 26 ₅ to 27 ₅ (s)			
ae. 27 ₅ to 28 ₅ (s)			
af. 28 ₅ to 29 ₅ (s)			
ag. 29 ₅ to 30 ₅ (s)			
ah. 30 ₅ to 31 ₅ (s)			
ai. 31 ₅ to 32 ₅ (s)			
aj. 32 ₅ to 33 ₅ (s)			
ak. 33 ₅ to 34 ₅ (s)			
al. 34 ₅ to 35 ₅ (s)			
am. 35 ₅ to 36 ₅ (s)			
an. 36 ₅ to 37 ₅ (s)			
ao. 37 ₅ to 38 ₅ (s)			
ap. 38 ₅ to 39 ₅ (s)			
aq. 39 ₅ to 40 ₅ (s)			
ar. 40 ₅ to 41 ₅ (s)			
as. 41 ₅ to 42 ₅ (s)			
at. 42 ₅ to 43 ₅ (s)			
au. 43 ₅ to 44 ₅ (s)			
av. 44 ₅ to 45 ₅ (s)			
aw. 45 ₅ to 46 ₅ (s)			
ax. 46 ₅ to 47 ₅ (s)			
ay. 47 ₅ to 48 ₅ (s)			
az. 48 ₅ to 49 ₅ (s)			
ba. 49 ₅ to 50 ₅ (s)			
bb. 50 ₅ to 51 ₅ (s)			
bc. 51 ₅ to 52 ₅ (s)			
bd. 52 ₅ to 53 ₅ (s)			
be. 53 ₅ to 54 ₅ (s)			
bf. 54 ₅ to 55 ₅ (s)			
bg. 55 ₅ to 56 ₅ (s)			
bh. 56 ₅ to 57 ₅ (s)			
bi. 57 ₅ to 58 ₅ (s)			
bj. 58 ₅ to 59 ₅ (s)			
bk. 59 ₅ to 60 ₅ (s)			
bl. 60 ₅ to 61 ₅ (s)			
bm. 61 ₅ to 62 ₅ (s)			
bn. 62 ₅ to 63 ₅ (s)			
bo. 63 ₅ to 64 ₅ (s)			
bp. 64 ₅ to 65 ₅ (s)			
bq. 65 ₅ to 66 ₅ (s)			
br. 66 ₅ to 67 ₅ (s)			
bs. 67 ₅ to 68 ₅ (s)			
bt. 68 ₅ to 69 ₅ (s)			
bu. 69 ₅ to 70 ₅ (s)			
bv. 70 ₅ to 71 ₅ (s)			
bw. 71 ₅ to 72 ₅ (s)			
bx. 72 ₅ to 73 ₅ (s)			
by. 73 ₅ to 74 ₅ (s)			
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cm. 87 ₅ to 88 ₅ (s)			
cn. 88 ₅ to 89 ₅ (s)			
co. 89 ₅ to 90 ₅ (s)			
cp. 90 ₅ to 91 ₅ (s)			
cq. 91 ₅ to 92 ₅ (s)			
cr. 92 ₅ to 93 ₅ (s)			
cs. 93 ₅ to 94 ₅ (s)			
ct. 94 ₅ to 95 ₅ (s)			
cu. 95 ₅ to 96 ₅ (s)			
cv. 96 ₅ to 97 ₅ (s)			
cw. 97 ₅ to 98 ₅ (s)			
cx. 98 ₅ to 99 ₅ (s)			
cy. 99 ₅ to 100 ₅ (s)			
ca. 100 ₅ to 101 ₅ (s)			
cb. 101 ₅ to 102 ₅ (s)			
cc. 102 ₅ to 103 ₅ (s)			
cd. 103 ₅ to 104 ₅ (s)			
ce. 104 ₅ to 105 ₅ (s)			
cf. 105 ₅ to 106 ₅ (s)			
cg. 106 ₅ to 107 ₅ (s)			
ch. 107 ₅ to 108 ₅ (s)			
ci. 108 ₅ to 109 ₅ (s)			
cj. 109 ₅ to 110 ₅ (s)			
ck. 110 ₅ to 111 ₅ (s)			
cl. 111 ₅ to 112 ₅ (s)			
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cn. 113 ₅ to 114 ₅ (s)			
co. 114 ₅ to 115 ₅ (s)			
cp. 115 ₅ to 116 ₅ (s)			
cq. 116 ₅ to 117 ₅ (s)			
cr. 117 ₅ to 118 ₅ (s)			
cs. 118 ₅ to 119 ₅ (s)			
ct. 119 ₅ to 120 ₅ (s)			
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cv. 121 ₅ to 122 ₅ (s)			
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cn. 138 ₅ to 139 ₅ (s)			
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cp. 140 ₅ to 141 ₅ (s)			
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cf. 155 ₅ to 156 ₅ (s)			
cg. 156 ₅ to 157 ₅ (s)			
ch. 157 ₅ to 158 ₅ (s)			
ci. 158 ₅ to 159 ₅ (s)			
cj. 159 ₅ to 160 ₅ (s)			
ck. 160 ₅ to 161 ₅ (s)			
cl. 161 ₅ to 162 ₅ (s)			
cm. 162 ₅ to 163 ₅ (s)			
cn. 163 ₅ to 164 ₅ (s)			
co. 164 ₅ to 165 ₅ (s)			
cp. 165 ₅ to 166 ₅ (s)			
cq. 166 ₅ to 167 ₅ (s)			
cr. 167 ₅ to 168 ₅ (s)			
cs. 168 ₅ to 169 ₅ (s)			
ct. 169 ₅ to 170 ₅ (s)			
cu. 170 ₅ to 171 ₅ (s)			
cv. 171 ₅ to 172 ₅ (s)			
cw. 172 ₅ to 173 ₅ (s)			
cx. 173 ₅ to 174 ₅ (s)			
cy. 174 ₅ to 175 ₅ (s)			
ca. 175 ₅ to 176 ₅ (s)			
cb. 176 ₅ to 177 ₅ (s)			
cc. 177 ₅ to 178 ₅ (s)			
cd. 178 ₅ to 179 ₅ (s)			
ce. 179 ₅ to 180 ₅ (s)			
cf. 180 ₅ to 181 ₅ (s)			
cg. 181 ₅ to 182 ₅ (s)			
ch. 182 ₅ to 183 ₅ (s)			
ci. 183 ₅ to 184 ₅ (s)			
cj. 184 ₅ to 185 ₅ (s)			
ck. 185 ₅ to 186 ₅ (s)			
cl. 186 ₅ to 187 ₅ (s)			
cm. 187 ₅ to 188 ₅ (s)			
cn. 188 ₅ to 189 ₅ (s)			
co. 189 ₅ to 190 ₅ (s)			
cp. 190 ₅ to 191 ₅ (s)			
cq. 191 ₅ to 192 ₅ (s)			
cr. 192 ₅ to 193 ₅ (s)			
cs. 193 ₅ to 194 ₅ (s)			
ct. 194 ₅ to 195 ₅ (s)			
cu. 195 ₅ to 196 ₅ (s)			
cv. 196 ₅ to 197 ₅ (s)			
cw. 197 ₅ to 198 ₅ (s)			
cx. 198 ₅ to 199 ₅ (s)			
cy. 199 ₅ to 200 ₅ (s)			
ca. 200 ₅ to 201 ₅ (s)			
cb. 201 ₅ to 202 ₅ (s)			
cc. 202 ₅ to 203 ₅ (s)			
cd. 203 ₅ to 204 ₅ (s)			
ce. 204 ₅ to 205 ₅ (s)			
cf. 205 ₅ to 206 ₅ (s)			
cg. 206 ₅ to 207 ₅ (s)			
ch. 207 ₅ to 208 ₅ (s)			
ci. 208 ₅ to 209 ₅ (s)			
cj. 209 ₅ to 210 ₅ (s)			
ck. 210 ₅ to 211 ₅ (s)			
cl. 211 ₅ to 212 ₅ (s)			
cm. 212 ₅ to 213 ₅ (s)			
cn. 213 ₅ to 214 ₅ (s)			
co. 214 ₅ to 215 ₅ (s)			
cp. 215 ₅ to 216 ₅ (s)			
cq. 216 ₅ to 217 ₅ (s)			
cr. 217 ₅ to 218 ₅ (s)			
cs. 218 ₅ to 219 ₅ (s)			
ct. 219 ₅ to 220 ₅ (s)			
cu. 220 ₅ to 221 ₅ (s)			
cv. 221 ₅ to 222 ₅ (s)			
cw. 222 ₅ to 223 ₅ (s)			
cx. 223 ₅ to 224 ₅ (s)			
cy. 224 ₅ to 225 ₅ (s)			
ca. 225 ₅ to 226 ₅ (s)			
cb. 226 ₅ to 227 ₅ (s)			
cc. 227 ₅ to 228 ₅ (s)			
cd. 228 ₅ to 229 ₅ (s)			
ce. 229 ₅ to 230 ₅ (s)			

1. SAMPLE NUMBER	66-132-1	CONTINUED	5. SAMPLER TYPE	
2. LATITUDE	44	56	6. WATER DEPTH (m.)	32.8
3. LONGITUDE	68	14	7. CORE LENGTH (m.)	122
4. DATE (Day, month, year)	14 SEPTEMBER 1959		8. CORE PENETRATION (m.)	132
9. LABORATORY NUMBERS	3878 *			
10. SUBSAMPLE DEPTH IN CORE (m.)	106-108	OLIVE GRAY (SY 41)		
11. COLOR	Medium gray N4			
12. ODOR				
13. NET DENSITY (lb./ft. ³)				
14. RIGIDITY (mm)				
15. MAXIMUM POROSITY (%)				
16. MINIMUM POROSITY (%)				
17. WATER CONTENT (%)				
18. ORGANIC CARBON CONTENT (%)				
19. SITE ANALYSIS AND STATISTICAL MEASURES				
a. $\bar{x} \pm 2s$ (%)				
b. $\bar{x} \pm 2s$ to $-1s$ (%)				
c. $-1s$ to $0s$ (%)				
d. $0s$ to $1s$ (%)				
e. $1s$ to $2s$ (%)				
f. $2s$ to $3s$ (%)				
g. $3s$ to $4s$ (%)				
h. $4s$ to $5s$ (%)				
i. $5s$ to $6s$ (%)				
j. $6s$ to $7s$ (%)				
k. $7s$ to $8s$ (%)				
20. SUBSAMPLE DRY WEIGHT (mg)	2275	5335		
21. SPHERICITY (avg.)				
22. IMMEDIATELY PLASTICITY	High	Low		
23. SUBSAMPLER TESTING TEMP. SHALL Ca.	0	0		
24. DOMINANT MINERAL (%)				
25. SECONDARY MINERAL (%)				
26. OTHER MINERALS (%)				
27. REMARKS:				

SEDIMENT TYPE CLAYEY SILT CLAYEY SILT

1. SAMPLE NUMBER	66-132-1	5. SAMPLER TYPE	MULLER-BORG
2. LATITUDE	44	6. WATER DEPTH (m.)	32.8
3. LONGITUDE	68	7. CORE LENGTH (m.)	122
4. DATE (Day, month, year)	14 SEPTEMBER 1959	8. CORE PENETRATION (m.)	132
9. LABORATORY NUMBERS	3878 *		
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2	OLIVE GRAY (SY 41)	
11. COLOR	OLIVE GRAY (SY 41)		
12. ODOR			
13. NET DENSITY (lb./ft. ³)			
14. RIGIDITY (mm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SITE ANALYSIS AND STATISTICAL MEASURES			
a. $\bar{x} \pm 2s$ (%)			
b. $\bar{x} \pm 2s$ to $-1s$ (%)			
c. $-1s$ to $0s$ (%)			
d. $0s$ to $1s$ (%)			
e. $1s$ to $2s$ (%)			
f. $2s$ to $3s$ (%)			
g. $3s$ to $4s$ (%)			
h. $4s$ to $5s$ (%)			
i. $5s$ to $6s$ (%)			
j. $6s$ to $7s$ (%)			
k. $7s$ to $8s$ (%)			
20. SUBSAMPLE DRY WEIGHT (mg)	2060	2483	1875
21. SPHERICITY (avg.)			
22. IMMEDIATELY PLASTICITY	High	High	High
23. SUBSAMPLER TESTING TEMP. SHALL Ca.	< 1%	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:			

REMARKS: ITEMS 11-26 DETERMINED IN THE LAB
0-9 in. - many dark streaks and thin black layers
13-107 - Very soft mud.

SEDIMENT TYPE CLAYEY SILT CLAYEY SILT CLAYEY SILT

1. SAMPLE NUMBER	66-132-1 : CONTINUED	5. SAMPLER TYPE	KULLENBERG
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (in.)	
4. DATE (Day, month, year)		8. CORE PENETRATION (in.)	
9. LABORATORY NUMBERS	3687	3688	3689 *
10. SUBSAMPLE DEPTH IN CORE (in.)	91-93	93-95	107-109
11. COLOR	OLIVE GRAY (5Y 4/1)	OLIVE GRAY (5Y 4/1)	OLIVE GRAY (5Y 4/1)
12. ODOR			
13. WET DENSITY (lb./ft. ³)			
14. RIGIDITY (mm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2 ₅ (%)	0 ₅	0 ₅	0 ₅
b. -2 ₅ to -1 ₅ (%)	5 ₅	5 ₅	5 ₅
c. -1 ₅ to 0 ₅ (%)	M ₅ 8.63	M ₅ 8.67	M ₅ 8.86
d. 0 ₅ to 1 ₅ (%)	R	0 ₁ 6.65	0 ₁ 7.09
e. 1 ₅ to 2 ₅ (%)	0 ₅	0 ₅	0 ₅
f. 2 ₅ to 3 ₅ (%)			
g. 3 ₅ to 4 ₅ (%)	16	16	13
h. 4 ₅ to 5 ₅ (%)	37	36	38
i. 5 ₅ to 9 ₅ (%)	45	46	48
j. > 9 ₅ (%)	26.89	17.56	21.06
20. SUBSAMPLE DRY WEIGHT (gm)			25.99
21. SPECIFICITY (DVS.)			
22. MINIMUM-TENSILE PLASTICITY	High	High	High
23. MINIMUM-TENSILE PLASTICITY	High	High	High
24. MINIMUM-TENSILE PLASTICITY	High	High	High
25. MINIMUM-TENSILE PLASTICITY	High	High	High
26. OTHER MINERALS (%)			
27. REMARKS:	* Sample contained dark streaks.		
SEGMENT TYPE	CORREY SUT	CORREY SUT	CORREY SUT

1. SAMPLE NUMBER	66-133-1	5. SAMPLER TYPE	KULLENBERG
2. LATITUDE	44 22 51 N	6. WATER DEPTH (m.)	11.3
3. LONGITUDE	68 57 09.5 W	7. CORE LENGTH (in.)	127
4. DATE (Day, month, year)	14 SEPTEMBER 1959	8. CORE PENETRATION (in.)	132
9. LABORATORY NUMBERS	3680 *	3681	3682
10. SUBSAMPLE DEPTH IN CORE (in.)	0-2	22-24	44-48
11. COLOR	OLIVE GRAY (5Y 3/6)	OLIVE GRAY (5Y 4/1)	OLIVE GRAY (5Y 4/1)
12. ODOR			
13. WET DENSITY (lb./ft. ³)			
14. RIGIDITY (mm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2 ₅ (%)	0 ₅	0 ₅	0 ₅
b. -2 ₅ to -1 ₅ (%)	5 ₅	5 ₅	5 ₅
c. -1 ₅ to 0 ₅ (%)	M ₅ 8.76	M ₅ 8.63	M ₅ 8.71
d. 0 ₅ to 1 ₅ (%)	1	0 ₁ 6.43	0 ₁ 7.23
e. 1 ₅ to 2 ₅ (%)	0 ₅	0 ₅	0 ₅
f. 2 ₅ to 3 ₅ (%)			
g. 3 ₅ to 4 ₅ (%)	14	10	10
h. 4 ₅ to 5 ₅ (%)	39	42	43
i. 5 ₅ to 9 ₅ (%)	46	47	46
j. > 9 ₅ (%)	29.71	18.74	25.00
20. SUBSAMPLE DRY WEIGHT (gm)			23.91
21. SPECIFICITY (DVS.)			
22. MINIMUM-TENSILE PLASTICITY	High	High	High
23. MINIMUM-TENSILE PLASTICITY	High	High	High
24. MINIMUM-TENSILE PLASTICITY	High	High	High
25. MINIMUM-TENSILE PLASTICITY	High	High	High
26. OTHER MINERALS (%)			
27. REMARKS:	ITEMS 11-26 DETERMINED IN THE LAB.		
	THE CORE CONTAINED DARK STREAKS IN THE FIRST 11 INCHES.		
	SOME SLOTTED AND WORM BURROWS THROUGHOUT CORE.		
SEGMENT TYPE	CORREY SUT	CORREY SUT	CORREY SUT

1. SAMPLE NUMBER	66-133-1, CONTAINED	5. SIMPLY TYPE	
2. LATITUDE		5. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	31554 *	9. CORE NUMBER	31555 *
10. SUBSAMPLE DEPTH IN CORE (m.)	98-98	10. CORE DEPTH (m.)	125-127
11. COLOR	Olive Gray (5Y 4/1)	11. CORE DEPTH (m.)	Olive Gray (5Y 4/1)
12. ODR		12. ODR	
13. MET DENSITY (lb./ft. ³)		13. MET DENSITY (lb./ft. ³)	
14. RESISTANCE (mm)		14. RESISTANCE (mm)	
15. MAXIMUM POROSITY (%)		15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES		19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2, (%)	0.5	a. < 2, (%)	0.5
b. 2-10, (%)	58	b. 2-10, (%)	58
c. 10-60, (%)	34.8	c. 10-60, (%)	34.8
d. 60-100, (%)	1	d. 60-100, (%)	1
e. 1-10, (%)	0.5	e. 1-10, (%)	0.5
f. 10-20, (%)	12	f. 10-20, (%)	12
g. 20-40, (%)	40	g. 20-40, (%)	40
h. 40-60, (%)	47	h. 40-60, (%)	47
i. 60-80, (%)	19.53	i. 60-80, (%)	19.53
j. > 80, (%)	17.28	j. > 80, (%)	17.28
20. SUBSAMPLE DRY WEIGHT (mg)		20. SUBSAMPLE DRY WEIGHT (mg)	
21. SPHERICITY (avg.)		21. SPHERICITY (avg.)	
22. MINERALOGY (text)	High	22. MINERALOGY (text)	High
23. SUBSTRATE (text)	0	23. SUBSTRATE (text)	0
24. DOMINANT MINERAL (%)		24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)		25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)		26. OTHER MINERALS (%)	
27. REMARKS:	* Sample contained dark streaks.		

SEDIMENT TYPE: OLIVE SILT

1. SAMPLE NUMBER	66-134-2	5. SIMPLY TYPE	
2. LATITUDE	44 24	5. WATER DEPTH (m.)	
3. LONGITUDE	68 57	7. CORE LENGTH (m.)	
4. DATE (day, month, year)	14 September 1959	8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	4821	9. CORE NUMBER	4821
10. SUBSAMPLE DEPTH IN CORE (m.)		10. CORE DEPTH (m.)	
11. COLOR	Olive Gray 5Y 4/1	11. CORE DEPTH (m.)	
12. ODR		12. ODR	
13. MET DENSITY (lb./ft. ³)		13. MET DENSITY (lb./ft. ³)	
14. RESISTANCE (mm)		14. RESISTANCE (mm)	
15. MAXIMUM POROSITY (%)		15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES		19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2, (%)	30	a. < 2, (%)	30
b. 2-10, (%)	100	b. 2-10, (%)	100
c. 10-60, (%)	2.50	c. 10-60, (%)	2.50
d. 60-100, (%)	8	d. 60-100, (%)	8
e. 1-10, (%)	7	e. 1-10, (%)	7
f. 10-20, (%)	9	f. 10-20, (%)	9
g. 20-40, (%)	0.1	g. 20-40, (%)	0.1
h. 40-60, (%)	0.2	h. 40-60, (%)	0.2
i. 60-80, (%)	1	i. 60-80, (%)	1
j. > 80, (%)	10	j. > 80, (%)	10
20. SUBSAMPLE DRY WEIGHT (mg)		20. SUBSAMPLE DRY WEIGHT (mg)	
21. SPHERICITY (avg.)		21. SPHERICITY (avg.)	
22. MINERALOGY (text)	Med	22. MINERALOGY (text)	Med
23. SUBSTRATE (text)	Shell Co.	23. SUBSTRATE (text)	Shell Co.
24. DOMINANT MINERAL (%)		24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)		25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)		26. OTHER MINERALS (%)	
27. REMARKS:	Items 11-26 determined in the lab		

Sediment Type: Babbly Sand

1. SAMPLE NUMBER	66-135-1	5. SIMPLY TYPE	
2. LATITUDE	44 24	5. WATER DEPTH (m.)	
3. LONGITUDE	68 55	7. CORE LENGTH (m.)	
4. DATE (day, month, year)	14 September 1959	8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	4882	9. CORE NUMBER	4882
10. SUBSAMPLE DEPTH IN CORE (m.)		10. CORE DEPTH (m.)	
11. COLOR	Olive Gray 5Y 4/1	11. CORE DEPTH (m.)	
12. ODR		12. ODR	
13. MET DENSITY (lb./ft. ³)		13. MET DENSITY (lb./ft. ³)	
14. RESISTANCE (mm)		14. RESISTANCE (mm)	
15. MAXIMUM POROSITY (%)		15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES		19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2, (%)		a. < 2, (%)	
b. 2-10, (%)		b. 2-10, (%)	
c. 10-60, (%)		c. 10-60, (%)	
d. 60-100, (%)		d. 60-100, (%)	
e. 1-10, (%)		e. 1-10, (%)	
f. 10-20, (%)		f. 10-20, (%)	
g. 20-40, (%)		g. 20-40, (%)	
h. 40-60, (%)		h. 40-60, (%)	
i. 60-80, (%)		i. 60-80, (%)	
j. > 80, (%)		j. > 80, (%)	
20. SUBSAMPLE DRY WEIGHT (mg)		20. SUBSAMPLE DRY WEIGHT (mg)	
21. SPHERICITY (avg.)		21. SPHERICITY (avg.)	
22. MINERALOGY (text)	High	22. MINERALOGY (text)	High
23. SUBSTRATE (text)	Shell Co.	23. SUBSTRATE (text)	Shell Co.
24. DOMINANT MINERAL (%)		24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)		25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)		26. OTHER MINERALS (%)	
27. REMARKS:	Items 11-26 determined in the lab		

Sediment Type: Clayey Silt

1. SAMPLE NUMBER	66-135-2	5. SAMPLER TYPE	KULLENBERG
2. LATITUDE	44° 24' N	6. WATER DEPTH (m.)	13.0
3. LONGITUDE	68° 55' W	7. CORE LENGTH (m.)	92
4. DATE (day, month, year)	14 SEPTEMBER 1959	8. CORE PENETRATION (m.)	144
9. LABORATORY NUMBERS	3839 *	9. LABORATORY NUMBERS	3840 *
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2	10. SUBSAMPLE DEPTH IN CORE (m.)	38-40
11. COLOR	OLIVE GRAY (SV 3/2)	11. COLOR	OLIVE GRAY (SV 3/2)
12. DOD		12. DOD	
13. WET DENSITY (lb./ft ³)		13. WET DENSITY (lb./ft ³)	
14. RIGIDITY (mm)		14. RIGIDITY (mm)	
15. MAXIMUM POROSITY (%)		15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2, (%)	0 ₂	0 ₂	0 ₂
b. -2 to -1, (%)	SK ₂	SK ₂	SK ₂
c. -1 to 0, (%)	MC 878	MC 878	MC 878
d. 0 to 1, (%)	0 ₁ 7.25	0 ₁ 7.12	0 ₁ 7.27
e. 1 to 2, (%)	0 ₂	0 ₂	0 ₂
f. 2 to 3, (%)			
g. 3 to 4, (%)	8	9	8
h. 4 to 5, (%)	44	45	43
i. 5 to 6, (%)	47	45	48
j. > 6, (%)			
20. SUBSAMPLE DRY WEIGHT (gm)	17.60	13.57	13.10
21. SPHERICITY (ave)			
22. PLASTICITY (ave)	High	High	High
23. SHRECK-TESTING (ave) Shell/Can.	0	0	0
24. DIAPHRAN MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:			

ITEMS 11-26 DETERMINED IN THE LAB.

* THE SAMPLE CONTAINED DARK STREAMS.
0-22 in. dark layers and streaks.
Minerals grains in org. - pulled apart.

SEDIMENT TYPE	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT
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1. SAMPLE NUMBER	66-135-2	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3842	9. LABORATORY NUMBERS	3843 *
10. SUBSAMPLE DEPTH IN CORE (m.)	68-70	10. SUBSAMPLE DEPTH IN CORE (m.)	90-92
11. COLOR	OLIVE GRAY (SV 4/1)	11. COLOR	OLIVE GRAY (SV 3/2)
12. DOD		12. DOD	
13. WET DENSITY (lb./ft ³)		13. WET DENSITY (lb./ft ³)	
14. RIGIDITY (mm)		14. RIGIDITY (mm)	
15. MAXIMUM POROSITY (%)		15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2, (%)	0 ₂	0 ₂	0 ₂
b. -2 to -1, (%)	SK ₂	SK ₂	SK ₂
c. -1 to 0, (%)	MC 885	MC 885	MC 885
d. 0 to 1, (%)	0 ₁ 7.26	0 ₁ 7.23	0 ₁
e. 1 to 2, (%)	0 ₂	0 ₂	0 ₂
f. 2 to 3, (%)			
g. 3 to 4, (%)	8	8	8
h. 4 to 5, (%)	43	44	44
i. 5 to 6, (%)	47	47	47
j. > 6, (%)			
20. SUBSAMPLE DRY WEIGHT (gm)	26.49	18.97	
21. SPHERICITY (ave)			
22. PLASTICITY (ave)	High	High	High
23. SHRECK-TESTING (ave) Shell/Can.	0	0	0
24. DIAPHRAN MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:			

38-40" - Soft mud.

SEDIMENT TYPE	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT
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1. SAMPLE NUMBER	66-136-1	5. SAMPLER TYPE	Hydraulic					
2. LATITUDE	44° 24' 43" N	6. WATER DEPTH (m.)	11.5					
3. LONGITUDE	68° 53' 42" W	7. CORE LENGTH (m.)	10.3					
4. DATE (Day, month, year)	14 September 1985	8. CORE PENETRATION (m.)						
9. LABORATORY NUMBERS								
10. SUBSAMPLE DEPTH IN CORE (cm.)	3771	3792	3793					
11. COLOR	Dark Greenish Gray (5Y 4/1)	Dark Gray (5Y 4/1)	Dark Gray (5Y 4/1)					
12. 0039								
13. WET DENSITY (kg./cc.)								
14. RESISTANCE (kg)								
15. MAXIMUM POROSITY (%)								
16. MINIMUM POROSITY (%)								
17. WATER CONTENT (%)								
18. ORGANIC CARBON CONTENT (%)								
19. SIZE ANALYSIS AND STATISTICAL MEASURES								
a. < 2 φ (%)	14	10. 3.27	7	10. 2.95	22	10. 4.95	20	10. 5.98
b. < 2 φ to < 2 φ (%)	5	10. 0.46	5	10. 0.51	5	10. 0.87	9	10. 1.50
c. < 2 φ to < 2 φ (%)	6	10. 3.73	5	10. 4.60	5	10. 4.25	9	10. 1.00
d. < 2 φ to < 2 φ (%)	7	10. 2.00	7	10. 1.14	6	10. 1.57	12	10. 1.44
e. < 2 φ to < 2 φ (%)	6	10. 6.55	7	10. 7.65	5	10. 8.33	11	10. 6.48
f. < 2 φ to < 2 φ (%)	5	6	4	4	4			
g. < 2 φ to < 2 φ (%)	10	5	2	2	1			
h. < 2 φ to < 2 φ (%)	18	23	10	6	6			
i. < 2 φ to < 2 φ (%)	17	20	21	13				
j. < 2 φ (%)	11	14	19	14				
20. SUBSAMPLE DRY WEIGHT (gm)		4777	4591	3391				3137
21. SPECIFICITY (mg.)								
22. PLASTICITY INDEX	Low	Low	Low	Low				Low
23. SHrinkage (mm/100mm)	< 1%	0	0	0				0
24. DOMINANT MINERAL (s)								
25. SECONDARY MINERAL (s)								
26. OTHER MINERALS (s)								
27. REMARKS	TEMPS 11-26 DETERMINED IN THE LAB. THE CORE WAS BROKEN AND PARTLY MOIST. 0.6" SLIGHT CLAY, 1" FINE SILT, 1" SHELL 1.2" SLIGHT COARSE SILT, 1" SAND, 1" SHELL 1.4" SLIGHT COARSE SILT, 1" SAND, 1" SHELL							

1. SAMPLE NUMBER	66-136-1 - CHRONISED		5. SAMPLER TYPE	
2. LATITUDE			6. WATER DEPTH (m.)	
3. LONGITUDE			7. CORE LENGTH (m.)	
4. DATE (Day, month, year)			8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS				
10. SUBSAMPLE DEPTH IN CORE (m.)	3795	3796	3797	3798
11. COLOR	Dark Gray (5Y 4/1)	Dark Gray (5Y 4/1)	Dark Gray (5Y 4/1)	Dark Gray (5Y 4/1)
12. 0039				
13. WET DENSITY (kg./m ³)				
14. RESISTANCE (kg)				
15. MAXIMUM POROSITY (%)				
16. MINIMUM POROSITY (%)				
17. WATER CONTENT (%)				
18. ORGANIC CARBON CONTENT (%)				
19. SIZE ANALYSIS AND STATISTICAL MEASURES				
a. < 2 φ (s)	6	10. 3.67	16	10. 3.82
b. < 2 φ to < 2 φ (s)	10	10. 1.77	9	10. 1.49
c. < 2 φ to < 2 φ (s)	12	10. 1.65	9	10. 1.43
d. < 2 φ to < 2 φ (s)	14	10. 0.25	12	10. 1.00
e. < 2 φ to < 2 φ (s)	12	10. 7.10	12	10. 6.65
f. < 2 φ to < 2 φ (s)	5	6	4	5
g. < 2 φ to < 2 φ (s)	2	2	1	2
h. < 2 φ to < 2 φ (s)	8	6	19	5
i. < 2 φ to < 2 φ (s)	15	14	9	12
j. < 2 φ (s)	15	15	10	14
20. SUBSAMPLE DRY WEIGHT (gm)	2570	3431	2755	2767
21. SPECIFICITY (avg.)				
22. PLASTICITY INDEX	Low	Low	Low	Low
23. SHrinkage (mm/100mm)	0	0	0	< 1%
24. DOMINANT MINERAL (s)				
25. SECONDARY MINERAL (s)				
26. OTHER MINERALS (s)				
27. REMARKS				

SEDIMENT TYPE	SILT SAND	SILT SAND	SILT SAND	SILT SAND
W/10% FINE	W/10% FINE	W/10% FINE	W/10% FINE	W/10% FINE

SEDIMENT TYPE	SILT SAND	SILT SAND	SILT SAND	SILT SAND
W/10% FINE	W/10% FINE	W/10% FINE	W/10% FINE	W/10% FINE

1. SAMPLE NUMBER	66-137-1
2. LATITUDE	44° 24' 33" N
3. LONGITUDE	68° 51' 35" W
4. DATE (day, month, year)	14 September 1969
5. LABORATORY NUMBERS	4023
6. WATER DEPTH (m.)	11.7
11. COLOR	Olive Black 573/11

12. ODR	
13. NET DENSITY (lb./ft. ³)	
14. RIGIDNESS (cm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < -2 _φ (%)		OD ₂	1.43
b. -2 _φ to -1 _φ (%)		SR ₂	41.50
c. -1 _φ to 0 _φ (%)		MS ₂	7.92
d. 0 _φ to 1 _φ (%)		01 ₂	6.49
e. 1 _φ to 2 _φ (%)		02 ₂	9.36
f. 2 _φ to 3 _φ (%)			
g. 3 _φ to 4 _φ (%)			
h. 4 _φ to 5 _φ (%)			
i. 5 _φ to 6 _φ (%)			
j. > 6 _φ (%)			
20. SUBSAMPLE DRY WEIGHT (gm)			20.81
21. SPECIFICITY (equiv.)			
22. NUMERICAL PLASTICITY			
23. SUBSAMPLING PLASTICITY			
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS: Items 11-26 determined in the lab			

1. SAMPLE NUMBER	66-137-2	5. SIMPLER TYPE	Kullenberg
2. LATITUDE	44° 24' 33" N	5. WATER DEPTH (m.)	11.2
3. LONGITUDE	68° 51' 35" W	7. CORE LENGTH (m.)	10.8
4. DATE (day, month, year)	14 September 1969	8. CORE PENETRATION (m.)	132
5. LABORATORY NUMBERS	4057		
6. WATER DEPTH (m.)	10-12		
11. COLOR	0-2		

12. ODR			
13. NET DENSITY (lb./ft. ³)			
14. RIGIDNESS (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			

19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < -2 _φ (%)		OD ₂	6
b. -2 _φ to -1 _φ (%)		SR ₂	5
c. -1 _φ to 0 _φ (%)		MS ₂	7.22
d. 0 _φ to 1 _φ (%)		01 ₂	1.50
e. 1 _φ to 2 _φ (%)		02 ₂	4
f. 2 _φ to 3 _φ (%)			
g. 3 _φ to 4 _φ (%)			
h. 4 _φ to 5 _φ (%)			
i. 5 _φ to 6 _φ (%)			
j. > 6 _φ (%)			
20. SUBSAMPLE DRY WEIGHT (gm)			15.09
21. SPECIFICITY (equiv.)			
22. NUMERICAL PLASTICITY			
23. SUBSAMPLING PLASTICITY			
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS: Items 11-26 determined in the lab			

12. ODR			
13. NET DENSITY (lb./ft. ³)			
14. RIGIDNESS (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			

19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < -2 _φ (%)		OD ₂	1
b. -2 _φ to -1 _φ (%)		SR ₂	6
c. -1 _φ to 0 _φ (%)		MS ₂	7.45
d. 0 _φ to 1 _φ (%)		01 ₂	1.70
e. 1 _φ to 2 _φ (%)		02 ₂	4
f. 2 _φ to 3 _φ (%)			
g. 3 _φ to 4 _φ (%)			
h. 4 _φ to 5 _φ (%)			
i. 5 _φ to 6 _φ (%)			
j. > 6 _φ (%)			
20. SUBSAMPLE DRY WEIGHT (gm)			15.09
21. SPECIFICITY (equiv.)			
22. NUMERICAL PLASTICITY			
23. SUBSAMPLING PLASTICITY			
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS: Items 11-26 determined in the lab			

12. ODR			
13. NET DENSITY (lb./ft. ³)			
14. RIGIDNESS (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			

19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < -2 _φ (%)		OD ₂	1
b. -2 _φ to -1 _φ (%)		SR ₂	6
c. -1 _φ to 0 _φ (%)		MS ₂	7.45
d. 0 _φ to 1 _φ (%)		01 ₂	1.70
e. 1 _φ to 2 _φ (%)		02 ₂	4
f. 2 _φ to 3 _φ (%)			
g. 3 _φ to 4 _φ (%)			
h. 4 _φ to 5 _φ (%)			
i. 5 _φ to 6 _φ (%)			
j. > 6 _φ (%)			
20. SUBSAMPLE DRY WEIGHT (gm)			15.09
21. SPECIFICITY (equiv.)			
22. NUMERICAL PLASTICITY			
23. SUBSAMPLING PLASTICITY			
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS: Items 11-26 determined in the lab			

1. SAMPLE NUMBER	66-187-2 continued				5. SAMPLER TYPE	
2. LATITUDE		5. WATER DEPTH (m.)				
3. LONGITUDE		7. CORE LENGTH (m.)				
4. DATE (day, month, year)		8. CORE PENETRATION (m.)				
9. LABORATORY NUMBER	4060	4061	4062	4063		
10. SUBSAMPLE DEPTH IN CORE (m.)	16-18	18-20	22-25	25-27		
11. COLOR	Olive Gray	Olive Gray	Olive Gray	Olive Gray		
	514/1	514/1	514/1	514/1		
12. DOOR						
13. NET DENSITY (lb./ft. ³)						
14. RIGIDITY (psi)						
15. MAXIMUM POROSITY (%)						
16. MINIMUM POROSITY (%)						
17. WATER CONTENT (%)						
18. ORGANIC CARBON CONTENT (%)						
19. SITE ANALYSIS AND STATISTICAL MEASURES						
20. SAMPLE DRY WEIGHT (gms)	5	9	4.59	4	15	15
21. SPECIFIC GRAVITY (g/cm ³)	5	10	10.29	5	15	15
22. PLASTICITY (%)	6	7.27	9	4.00	6	6.88
23. SHrinkage (%)	7	1.45	10	0.1-0.80	9	0.1-1.40
24. SHrinkage (%)	4	0.2	5	0.2-0.88	5	0.2
25. SHrinkage (%)	3	4	3	5	6	6
26. SHrinkage (%)	2	3	3	3	3	3
27. SHrinkage (%)	8	6	7	4	4	4
28. SHrinkage (%)	28	20	26	11	11	11
29. SHrinkage (%)	32	24	30	13	13	13
30. SAMPLE DRY WEIGHT (gms)	1514	1992	23.38	29.81		
31. SPECIFIC GRAVITY (g/cm ³)	14.96	Med	Med	Low		
32. PLASTICITY (%)	0	17%	17%	17%		
33. SHrinkage (%)	0	17%	17%	17%		
34. SHrinkage (%)	0	17%	17%	17%		
35. SHrinkage (%)	0	17%	17%	17%		
36. SHrinkage (%)	0	17%	17%	17%		
37. REMARKS	Composition Soft, olive gray mud with numerous silt granules and shell stringed in some places, with green granules, shell, and silt					
38. SEDIMENT TYPE	Silty Mud	Sandy Mud	Sandy Mud	Sandy Mud	Sandy Mud	Sandy Mud

1. SAMPLE NUMBER	66-187-2 continued				5. SAMPLER TYPE	
2. LATITUDE		5. WATER DEPTH (m.)				
3. LONGITUDE		7. CORE LENGTH (m.)				
4. DATE (day, month, year)		8. CORE PENETRATION (m.)				
9. LABORATORY NUMBER	4064	4065	4066	4067		
10. SUBSAMPLE DEPTH IN CORE (m.)	40-42	53-55	55-57	70-72		
11. COLOR	Olive Gray	Olive Gray	Olive Gray	Olive Gray		
	514/1	514/1	514/1	514/1		
12. DOOR						
13. NET DENSITY (lb./ft. ³)						
14. RIGIDITY (psi)						
15. MAXIMUM POROSITY (%)						
16. MINIMUM POROSITY (%)						
17. WATER CONTENT (%)						
18. ORGANIC CARBON CONTENT (%)						
19. SITE ANALYSIS AND STATISTICAL MEASURES						
20. SAMPLE DRY WEIGHT (gms)	13	3.02	2	2.22	2	0.90
21. SPECIFIC GRAVITY (g/cm ³)	12	11.37	9	11.68	3	10.33
22. PLASTICITY (%)	14	0.65	15	1.00	6	1.27
23. SHrinkage (%)	15	0.1-1.00	24	0.05	26	0.70
24. SHrinkage (%)	8	5.05	9	5.40	32	2.50
25. SHrinkage (%)	7	4	4	4	4	4
26. SHrinkage (%)	4	4	4	4	4	4
27. SHrinkage (%)	11	11	11	11	11	11
28. SHrinkage (%)	12	12	12	12	12	12
29. SHrinkage (%)	12	12	12	12	12	12
30. SAMPLE DRY WEIGHT (gms)	3.225	22.58	30.93	46.56		
31. SPECIFIC GRAVITY (g/cm ³)	2.0	2.0	2.0	2.0		
32. PLASTICITY (%)	2.0	2.0	2.0	2.0		
33. SHrinkage (%)	2.0	2.0	2.0	2.0		
34. SHrinkage (%)	2.0	2.0	2.0	2.0		
35. SHrinkage (%)	2.0	2.0	2.0	2.0		
36. SHrinkage (%)	2.0	2.0	2.0	2.0		
37. REMARKS	Composition Silt and clay granules, shell and silt * Dark streaks					
38. SEDIMENT TYPE	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand

1. SAMPLE NUMBER	66-137-2 continued	5. SAMPLER TYPE	
2. LATITUDE	44° 25' N	6. WATER DEPTH (m.)	11.2
3. LONGITUDE	68° 51' W	7. CORE LENGTH (m.)	99
4. DATE (day, month, year)	SEPTEMBER 14, 1959	8. CORE PENETRATION (m.)	144
9. LABORATORY NUMBERS	4068	9. LAB. NO.	4070
10. SUBSAMPLE DEPTH IN CORE (m.)	87-91	10. SUBSAMPLE DEPTH IN CORE (m.)	91-93
11. COLOR	Olive Gray 5Y4/1	11. COLOR	Dark Greenish Gray (Mottled) 5Y4/1
12. DOOR		12. DOOR	
13. WET DENSITY (lb./ft. ³)		13. WET DENSITY (lb./ft. ³)	
14. RIDGE (mm)		14. RIDGE (mm)	
15. MAXIMUM POROSITY (%)		15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES		19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. -2% (s)	11	a. -2% (s)	11
b. -2% to -1% (s)	10	b. -2% to -1% (s)	10
c. -1% to 0% (s)	9	c. -1% to 0% (s)	9
d. 0% to 1% (s)	12	d. 0% to 1% (s)	12
e. 1% to 2% (s)	16	e. 1% to 2% (s)	16
f. 2% to 3% (s)	12	f. 2% to 3% (s)	12
g. 3% to 4% (s)	8	g. 3% to 4% (s)	8
h. 4% to 5% (s)	7	h. 4% to 5% (s)	7
i. 5% to 6% (s)	10	i. 5% to 6% (s)	10
j. 6% to 7% (s)	8	j. 6% to 7% (s)	8
k. 7% to 8% (s)	7	k. 7% to 8% (s)	7
l. 8% to 9% (s)	8	l. 8% to 9% (s)	8
m. 9% to 10% (s)	8	m. 9% to 10% (s)	8
n. 10% to 11% (s)	8	n. 10% to 11% (s)	8
o. 11% to 12% (s)	8	o. 11% to 12% (s)	8
p. 12% to 13% (s)	8	p. 12% to 13% (s)	8
q. 13% to 14% (s)	8	q. 13% to 14% (s)	8
r. 14% to 15% (s)	8	r. 14% to 15% (s)	8
s. 15% to 16% (s)	8	s. 15% to 16% (s)	8
t. 16% to 17% (s)	8	t. 16% to 17% (s)	8
u. 17% to 18% (s)	8	u. 17% to 18% (s)	8
v. 18% to 19% (s)	8	v. 18% to 19% (s)	8
w. 19% to 20% (s)	8	w. 19% to 20% (s)	8
x. 20% to 21% (s)	8	x. 20% to 21% (s)	8
y. 21% to 22% (s)	8	y. 21% to 22% (s)	8
z. 22% to 23% (s)	8	z. 22% to 23% (s)	8
aa. 23% to 24% (s)	8	aa. 23% to 24% (s)	8
ab. 24% to 25% (s)	8	ab. 24% to 25% (s)	8
ac. 25% to 26% (s)	8	ac. 25% to 26% (s)	8
ad. 26% to 27% (s)	8	ad. 26% to 27% (s)	8
ae. 27% to 28% (s)	8	ae. 27% to 28% (s)	8
af. 28% to 29% (s)	8	af. 28% to 29% (s)	8
ag. 29% to 30% (s)	8	ag. 29% to 30% (s)	8
ah. 30% to 31% (s)	8	ah. 30% to 31% (s)	8
ai. 31% to 32% (s)	8	ai. 31% to 32% (s)	8
aj. 32% to 33% (s)	8	aj. 32% to 33% (s)	8
ak. 33% to 34% (s)	8	ak. 33% to 34% (s)	8
al. 34% to 35% (s)	8	al. 34% to 35% (s)	8
am. 35% to 36% (s)	8	am. 35% to 36% (s)	8
an. 36% to 37% (s)	8	an. 36% to 37% (s)	8
ao. 37% to 38% (s)	8	ao. 37% to 38% (s)	8
ap. 38% to 39% (s)	8	ap. 38% to 39% (s)	8
aq. 39% to 40% (s)	8	aq. 39% to 40% (s)	8
ar. 40% to 41% (s)	8	ar. 40% to 41% (s)	8
as. 41% to 42% (s)	8	as. 41% to 42% (s)	8
at. 42% to 43% (s)	8	at. 42% to 43% (s)	8
au. 43% to 44% (s)	8	au. 43% to 44% (s)	8
av. 44% to 45% (s)	8	av. 44% to 45% (s)	8
aw. 45% to 46% (s)	8	aw. 45% to 46% (s)	8
ax. 46% to 47% (s)	8	ax. 46% to 47% (s)	8
ay. 47% to 48% (s)	8	ay. 47% to 48% (s)	8
az. 48% to 49% (s)	8	az. 48% to 49% (s)	8
ba. 49% to 50% (s)	8	ba. 49% to 50% (s)	8
bb. 50% to 51% (s)	8	bb. 50% to 51% (s)	8
bc. 51% to 52% (s)	8	bc. 51% to 52% (s)	8
bd. 52% to 53% (s)	8	bd. 52% to 53% (s)	8
be. 53% to 54% (s)	8	be. 53% to 54% (s)	8
bf. 54% to 55% (s)	8	bf. 54% to 55% (s)	8
bg. 55% to 56% (s)	8	bg. 55% to 56% (s)	8
bh. 56% to 57% (s)	8	bh. 56% to 57% (s)	8
bi. 57% to 58% (s)	8	bi. 57% to 58% (s)	8
bj. 58% to 59% (s)	8	bj. 58% to 59% (s)	8
bk. 59% to 60% (s)	8	bk. 59% to 60% (s)	8
bl. 60% to 61% (s)	8	bl. 60% to 61% (s)	8
bm. 61% to 62% (s)	8	bm. 61% to 62% (s)	8
bn. 62% to 63% (s)	8	bn. 62% to 63% (s)	8
bo. 63% to 64% (s)	8	bo. 63% to 64% (s)	8
bp. 64% to 65% (s)	8	bp. 64% to 65% (s)	8
bq. 65% to 66% (s)	8	bq. 65% to 66% (s)	8
br. 66% to 67% (s)	8	br. 66% to 67% (s)	8
bs. 67% to 68% (s)	8	bs. 67% to 68% (s)	8
bt. 68% to 69% (s)	8	bt. 68% to 69% (s)	8
bu. 69% to 70% (s)	8	bu. 69% to 70% (s)	8
bv. 70% to 71% (s)	8	bv. 70% to 71% (s)	8
bw. 71% to 72% (s)	8	bw. 71% to 72% (s)	8
bx. 72% to 73% (s)	8	bx. 72% to 73% (s)	8
by. 73% to 74% (s)	8	by. 73% to 74% (s)	8
bz. 74% to 75% (s)	8	bz. 74% to 75% (s)	8
ca. 75% to 76% (s)	8	ca. 75% to 76% (s)	8
cb. 76% to 77% (s)	8	cb. 76% to 77% (s)	8
cc. 77% to 78% (s)	8	cc. 77% to 78% (s)	8
cd. 78% to 79% (s)	8	cd. 78% to 79% (s)	8
ce. 79% to 80% (s)	8	ce. 79% to 80% (s)	8
cf. 80% to 81% (s)	8	cf. 80% to 81% (s)	8
cg. 81% to 82% (s)	8	cg. 81% to 82% (s)	8
ch. 82% to 83% (s)	8	ch. 82% to 83% (s)	8
ci. 83% to 84% (s)	8	ci. 83% to 84% (s)	8
cj. 84% to 85% (s)	8	cj. 84% to 85% (s)	8
ck. 85% to 86% (s)	8	ck. 85% to 86% (s)	8
cl. 86% to 87% (s)	8	cl. 86% to 87% (s)	8
cm. 87% to 88% (s)	8	cm. 87% to 88% (s)	8
cn. 88% to 89% (s)	8	cn. 88% to 89% (s)	8
co. 89% to 90% (s)	8	co. 89% to 90% (s)	8
cp. 90% to 91% (s)	8	cp. 90% to 91% (s)	8
cq. 91% to 92% (s)	8	cq. 91% to 92% (s)	8
cr. 92% to 93% (s)	8	cr. 92% to 93% (s)	8
cs. 93% to 94% (s)	8	cs. 93% to 94% (s)	8
ct. 94% to 95% (s)	8	ct. 94% to 95% (s)	8
cu. 95% to 96% (s)	8	cu. 95% to 96% (s)	8
cv. 96% to 97% (s)	8	cv. 96% to 97% (s)	8
cw. 97% to 98% (s)	8	cw. 97% to 98% (s)	8
cx. 98% to 99% (s)	8	cx. 98% to 99% (s)	8
cy. 99% to 100% (s)	8	cy. 99% to 100% (s)	8
ca. 100% to 101% (s)	8	ca. 100% to 101% (s)	8
cb. 101% to 102% (s)	8	cb. 101% to 102% (s)	8
cc. 102% to 103% (s)	8	cc. 102% to 103% (s)	8
cd. 103% to 104% (s)	8	cd. 103% to 104% (s)	8
ce. 104% to 105% (s)	8	ce. 104% to 105% (s)	8
cf. 105% to 106% (s)	8	cf. 105% to 106% (s)	8
cg. 106% to 107% (s)	8	cg. 106% to 107% (s)	8
ch. 107% to 108% (s)	8	ch. 107% to 108% (s)	8
ci. 108% to 109% (s)	8	ci. 108% to 109% (s)	8
cj. 109% to 110% (s)	8	cj. 109% to 110% (s)	8
ck. 110% to 111% (s)	8	ck. 110% to 111% (s)	8
cl. 111% to 112% (s)	8	cl. 111% to 112% (s)	8
cm. 112% to 113% (s)	8	cm. 112% to 113% (s)	8
cn. 113% to 114% (s)	8	cn. 113% to 114% (s)	8
co. 114% to 115% (s)	8	co. 114% to 115% (s)	8
cp. 115% to 116% (s)	8	cp. 115% to 116% (s)	8
cq. 116% to 117% (s)	8	cq. 116% to 117% (s)	8
cr. 117% to 118% (s)	8	cr. 117% to 118% (s)	8
cs. 118% to 119% (s)	8	cs. 118% to 119% (s)	8
ct. 119% to 120% (s)	8	ct. 119% to 120% (s)	8
cu. 120% to 121% (s)	8	cu. 120% to 121% (s)	8
cv. 121% to 122% (s)	8	cv. 121% to 122% (s)	8
cw. 122% to 123% (s)	8	cw. 122% to 123% (s)	8
cx. 123% to 124% (s)	8	cx. 123% to 124% (s)	8
cy. 124% to 125% (s)	8	cy. 124% to 125% (s)	8
ca. 125% to 126% (s)	8	ca. 125% to 126% (s)	8
cb. 126% to 127% (s)	8	cb. 126% to 127% (s)	8
cc. 127% to 128% (s)	8	cc. 127% to 128% (s)	8
cd. 128% to 129% (s)	8	cd. 128% to 129% (s)	8
ce. 129% to 130% (s)	8	ce. 129% to 130% (s)	8
cf. 130% to 131% (s)	8	cf. 130% to 131% (s)	8
cg. 131% to 132% (s)	8	cg. 131% to 132% (s)	8
ch. 132% to 133% (s)	8	ch. 132% to 133% (s)	8
ci. 133% to 134% (s)	8	ci. 133% to 134% (s)	8
cj. 134% to 135% (s)	8	cj. 134% to 135% (s)	8
ck. 135% to 136% (s)	8	ck. 135% to 136% (s)	8
cl. 136% to 137% (s)	8	cl. 136% to 137% (s)	8
cm. 137% to 138% (s)	8	cm. 137% to 138% (s)	8
cn. 138% to 139% (s)	8	cn. 138% to 139% (s)	8
co. 139% to 140% (s)	8	co. 139% to 140% (s)	8
cp. 140% to 141% (s)	8	cp. 140% to 141% (s)	8
cq. 141% to 142% (s)	8	cq. 141% to 142% (s)	8
cr. 142% to 143% (s)	8	cr. 142% to 143% (s)	8
cs. 143% to 144% (s)	8	cs. 143% to 144% (s)	8
ct. 144% to 145% (s)	8	ct. 144% to 145% (s)	8
cu. 145% to 146% (s)	8	cu. 145% to 146% (s)	8
cv. 146% to 147% (s)	8	cv. 146% to 147% (s)	8
cw. 147% to 148% (s)	8	cw. 147% to 148% (s)	8
cx. 148% to 149% (s)	8	cx. 148% to 149% (s)	8
cy. 149% to 150% (s)	8	cy. 149% to 150% (s)	8
ca. 150% to 151% (s)	8	ca. 150% to 151% (s)	8
cb. 151% to 152% (s)	8	cb. 151% to 152% (s)	8
cc. 152% to 153% (s)	8	cc. 152% to 153% (s)	8
cd. 153% to 154% (s)	8	cd. 153% to 154% (s)	8
ce. 154% to 155% (s)	8	ce. 154% to 155% (s)	8
cf. 155% to 156% (s)	8	cf. 155% to 156% (s)	8
cg. 156% to 157% (s)	8	cg. 156% to 157% (s)	8
ch. 157% to 158% (s)	8	ch. 157% to 158% (s)	8
ci. 158% to 159% (s)	8	ci. 158% to 159% (s)	8
cj. 159% to 160% (s)	8	cj. 159% to 160% (s)	8
ck. 160% to 161% (s)	8	ck. 160% to 161% (s)	8
cl. 161% to 162% (s)	8	cl. 161% to 162% (s)	8
cm. 162% to 163% (s)	8	cm. 162% to 163% (s)	8
cn. 163% to 164% (s)	8	cn. 163% to 164% (s)	8
co. 164% to 165% (s)	8	co. 164% to 165% (s)	8
cp. 165% to 166% (s)	8	cp. 165% to 166% (s)	8
cq. 166% to 167% (s)	8	cq. 166% to 167% (s)	8
cr. 167% to 168% (s)	8	cr. 167% to 168% (s)	8
cs. 168% to 169% (s)	8	cs. 168% to 169% (s)	8
ct. 169% to 170% (s)	8	ct. 169% to 170% (s)	8
cu. 170% to 171% (s)	8	cu. 170% to 171% (s)	8
cv. 171% to 172% (s)	8	cv. 171% to 172% (s)	8
cw. 172% to 173% (s)	8	cw. 172% to 173% (s)	8
cx. 173% to 174% (s)	8	cx. 173% to 174% (s)	8
cy. 174% to 175% (s)	8	cy. 174% to 175% (s)	8
ca. 175% to 176% (s)	8	ca. 175% to 176% (s)	8
cb. 176% to 177% (s)	8	cb. 176% to 177% (s)	8
cc. 177% to 178% (s)	8	cc. 177% to 178% (s)	8
cd. 178% to 179% (s)	8	cd. 178% to 179% (s)	8
ce. 179% to 180% (s)	8	ce. 179% to 180% (s)	8
cf. 180% to 181% (s)	8	cf. 180% to 181% (s)	8
cg. 181% to 182% (s)	8	cg. 181% to 182% (s)	8
ch. 182% to 183% (s)	8	ch. 182% to 183% (s)	8
ci. 183% to 184% (s)	8	ci. 183% to 184% (s)	8
cj. 184% to 185% (s)	8	cj. 184% to 185% (s)	8
ck. 185% to 186% (s)	8	ck. 185% to 186% (s)	8
cl. 186% to 187% (s)	8	cl. 186% to 187% (s)	8
cm. 187% to 188% (s)	8	cm. 187% to 188% (s)	8
cn. 188% to 189% (s)	8	cn. 188% to 189% (s)	8
co. 189% to 190% (s)	8	co. 189% to 190% (s)	8
cp. 190% to 191% (s)	8	cp. 190% to 191% (s)	8
cq. 191% to 192% (s)	8	cq. 191% to 192% (s)	8
cr. 192% to 193% (s)	8	cr. 192% to 193% (s)	8
cs. 193% to 194% (s)	8	cs. 193% to 194% (s)	8
ct. 194% to 195% (s)	8	ct. 194% to 195% (s)	8
cu. 195% to 196% (s)	8	cu. 195% to 196% (s)	8
cv. 196% to 197% (s)	8	cv. 196% to 197% (s)	8
cw. 197% to 198% (s)	8	cw. 197% to 198% (s)	8
cx. 198% to 199% (s)	8	cx. 198% to 199% (s)	8
cy. 199% to 200% (s)	8	cy. 199% to 200% (s)	8
ca. 200% to 201% (s)	8	ca. 200% to 201% (s)	8
cb. 201% to 202% (s)	8	cb. 201% to 202% (s)	8
cc. 202% to 203% (s)	8	cc. 202% to 203% (s)	8
cd. 203% to 204% (s)	8	cd. 203% to 204% (s)	8
ce. 204% to 205% (s)	8	ce. 204% to 205% (s)	8
cf. 205% to 206% (s)	8	cf. 205% to 206% (s)	8
cg. 206% to 207			

66-138-1 CONTINUED									
1. SAMPLE NUMBER	66-138-1	CONTINUED	5. SIMPLER TYPE						
2. LATITUDE			6. WATER DEPTH (m.)						
3. LONGITUDE			7. CORE LENGTH (m.)						
4. DATE (day, month, year)			8. CORE PENETRATION (m.)						
9. LABORATORY NUMBERS	3580	3581	3582	*	3583				
10. SUBSAMPLE DEPTH IN CORE (m.)	37-39	39-41	50-52		54-56				
11. COLOR	OLIVE GRAY (5Y 4/1)	GREENISH BLACK (5GY 2/1)	GREENISH BLACK (5GY 2/1)		OLIVE GRAY (5Y 4/1)				
12. DOOR									
13. WET DENSITY (lb./ft ³)									
14. FIDUCIAL (mm)									
15. MAXIMUM POROSITY (%)									
16. MINIMUM POROSITY (%)									
17. WATER CONTENT (%)									
18. ORGANIC CARBON CONTENT (%)									
19. SIZE ANALYSIS AND STATISTICAL MEASURES									
a. ϕ_1 to ϕ_4	1	2.00	2	1.38	3	1.45	3	1.13	3
b. ϕ_1 to ϕ_2 to ϕ_3 to ϕ_4 (%)	1	54.1073	1	54.1073	3	54.1075	1	54.1073	3
c. ϕ_1 to ϕ_2 to ϕ_3 to ϕ_4 (%)	1	4.15	3	4.15	3	4.15	3	4.15	3
d. ϕ_1 to ϕ_2 to ϕ_3 to ϕ_4 (%)	2	0.1282	13	0.1282	11	0.1285	5	0.1282	13
e. ϕ_1 to ϕ_2 to ϕ_3 to ϕ_4 (%)	10	0.2635	27	0.2635	35	0.2635	13	0.2635	35
f. ϕ_1 to ϕ_2 to ϕ_3 to ϕ_4 (%)	15	19	10	15	15	11	15	15	11
g. ϕ_1 to ϕ_2 to ϕ_3 to ϕ_4 (%)	20	10	10	10	10	10	10	10	10
h. ϕ_1 to ϕ_2 to ϕ_3 to ϕ_4 (%)	22	11	13	13	14	14	14	14	14
i. ϕ_1 to ϕ_2 to ϕ_3 to ϕ_4 (%)	15	7	8	7	17	17	17	17	17
j. ϕ_1 to ϕ_2 to ϕ_3 to ϕ_4 (%)	15	8	6	22	22	22	22	22	22
20. SUBSAMPLABLE DRY WEIGHT (mg)	32.69	33.28	33.43		23.34				
21. SPECIFIC GRAVITY (g/cc)									
22. PARTICULATE CHARACTERISTICS	High	None	None		Low				
23. SUBSAMPLABLE DRY WEIGHT (mg)	219	5%	219		0				
24. DRY WEIGHT (mg)									
25. SECONDARY MINERAL (%)									
26. OTHER MINERALS (%)									
27. REMARKS: CONTAINED SHELL FRAGMENTS UP TO 2 1/2" IN LENGTH. NOTED. 54-71 SANDY MUD 71-99 SILTY SAND									
SEDIMENT TYPE SILTY SAND SILTY SAND SILTY SAND SILTY SAND SILTY SAND SILTY SAND SILTY SAND SILTY SAND SILTY SAND									

66-138-1 CONTINUED									
1. SAMPLE NUMBER	66-138-1	CONTINUED	5. SIMPLER TYPE						
2. LATITUDE			6. WATER DEPTH (m.)						
3. LONGITUDE			7. CORE LENGTH (m.)						
4. DATE (day, month, year)			8. CORE PENETRATION (m.)						
9. LABORATORY NUMBERS	3584	3585	3586	*	3587				
10. SUBSAMPLE DEPTH IN CORE (m.)	69-71	75-77	82-84		84-86				
11. COLOR	OLIVE GRAY (5Y 4/1)	OLIVE GRAY (5Y 4/1)	OLIVE GRAY (5Y 4/1)		OLIVE GRAY (5Y 4/1)				
12. DOOR									
13. WET DENSITY (lb./ft ³)									
14. FIDUCIAL (mm)									
15. MAXIMUM POROSITY (%)									
16. MINIMUM POROSITY (%)									
17. WATER CONTENT (%)									
18. ORGANIC CARBON CONTENT (%)									
19. SIZE ANALYSIS AND STATISTICAL MEASURES									
a. ϕ_1 to ϕ_4	5	0.257	4	0.247	3	0.214	3	0.214	3
b. ϕ_1 to ϕ_2 to ϕ_3 to ϕ_4 (%)	1	10.68	2	10.68	1	10.68	1	10.68	1
c. ϕ_1 to ϕ_2 to ϕ_3 to ϕ_4 (%)	2	4.17	2	4.17	2	4.17	2	4.17	2
d. ϕ_1 to ϕ_2 to ϕ_3 to ϕ_4 (%)	5	0.128	6	0.128	6	0.128	6	0.128	6
e. ϕ_1 to ϕ_2 to ϕ_3 to ϕ_4 (%)	9	0.243	13	0.243	15	0.243	15	0.243	15
f. ϕ_1 to ϕ_2 to ϕ_3 to ϕ_4 (%)	11	11	11	11	15	15	15	15	15
g. ϕ_1 to ϕ_2 to ϕ_3 to ϕ_4 (%)	15	14	14	14	15	15	15	15	15
h. ϕ_1 to ϕ_2 to ϕ_3 to ϕ_4 (%)	19	17	17	17	17	17	17	17	17
i. ϕ_1 to ϕ_2 to ϕ_3 to ϕ_4 (%)	16	15	15	15	16	16	16	16	16
j. ϕ_1 to ϕ_2 to ϕ_3 to ϕ_4 (%)	18	17	17	17	13	13	13	13	13
20. SUBSAMPLABLE DRY WEIGHT (mg)	30.61	31.95	37.25		43.17				
21. SPECIFIC GRAVITY (g/cc)									
22. PARTICULATE CHARACTERISTICS	Low	Low	Low		Low				
23. SUBSAMPLABLE DRY WEIGHT (mg)	0	0	0		0				
24. DRY WEIGHT (mg)									
25. SECONDARY MINERAL (%)									
26. OTHER MINERALS (%)									
27. REMARKS: # CONTAINED BLUE STRIPS.									
SEDIMENT TYPE SILTY SAND SILTY SAND SILTY SAND SILTY SAND SILTY SAND SILTY SAND SILTY SAND SILTY SAND SILTY SAND									

1. SAMPLE NUMBER	66-138-1 CONTINUED	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (DD, MONTH, YEAR)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3580 **		
10. SUBSAMPLE DEPTH IN CORE (m.)	97-99		
11. COLOR	OLIVE GRAY (5-Y 4/1)		
12. MOOR			
13. WET DENSITY (lb./ft ³)			
14. RIGIDITY (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2 ₅ (%)	15	0 ₅ 2.82	0 ₅
b. -2 ₅ to -1 ₅ (%)	11	5 ₅ 10.10	5 ₅
c. -1 ₅ to 0 ₅ (%)	7	W ₅ 1.62	W ₅
d. 0 ₅ to 1 ₅ (%)	9	0 ₁ 1.10	0 ₁
e. 1 ₅ to 2 ₅ (%)	13	0 ₃ 4.55	0 ₃
f. 2 ₅ to 3 ₅ (%)	9		
g. 3 ₅ to 4 ₅ (%)	8		
h. 4 ₅ to 5 ₅ (%)	10		
i. 5 ₅ to 6 ₅ (%)	9		
j. > 6 ₅ (%)	9		
20. SUBSAMPLE DRY WEIGHT (gm)			
21. SPHERICITY (avg.)	4/18		
22. PLASTICITY	1-0		
23. SHAKAL-TESTING (mm) Scale/Gr.	0		
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS	44 CONTINUED BLANK STRAINS.		

SEDIMENT TYPE	Silty Sand
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1. SAMPLE NUMBER	66-139-1	5. SAMPLER TYPE	MULLERBERG
2. LATITUDE	26	4.1	
3. LONGITUDE	68	50	13
4. DATE (DD, MONTH, YEAR)	14 September 1959		
5. LABORATORY NUMBERS	3964	3965	3966
6. SUBSAMPLE DEPTH IN CORE (m.)	0-2	22-24	48-50
7. COLOR	tanish blue (5.0Y 4/4)	tanish blue (5.0Y 4/4)	tanish blue (5.0Y 4/4)
8. MOOR			
9. WET DENSITY (lb./ft ³)			
10. RIGIDITY (cm)			
11. MAXIMUM POROSITY (%)			
12. MINIMUM POROSITY (%)			
13. WATER CONTENT (%)			
14. ORGANIC CARBON CONTENT (%)			
15. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2 ₅ (%)	3	0 ₅	0 ₅
b. -2 ₅ to -1 ₅ (%)		5 ₅	5 ₅
c. -1 ₅ to 0 ₅ (%)	W ₅ 8.35	W ₅ 8.12	W ₅ 8.21
d. 0 ₅ to 1 ₅ (%)	0 ₁ 6.38	0 ₁ 5.91	0 ₁ 6.10
e. 1 ₅ to 2 ₅ (%)	2	0 ₃	0 ₃
f. 2 ₅ to 3 ₅ (%)	2		
g. 3 ₅ to 4 ₅ (%)	2		
h. 4 ₅ to 5 ₅ (%)	15	15	18
i. 5 ₅ to 6 ₅ (%)	38	35	36
j. > 6 ₅ (%)	42	39	38
20. SUBSAMPLE DRY WEIGHT (gm)	16.62	18.00	21.91
21. SPHERICITY (avg.)			
22. PLASTICITY	11:3.6	11:3.6	11:3.6
23. SHAKAL-TESTING (mm) Scale/Gr.	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS	ITEMS 11-26 DETERMINED IN THE LAB. DARK STRAINS IN THE FIRST 6 INCHES OF THE CORE. SHELL SCATTERED THROUGHOUT CORE		

SEDIMENT TYPE	tanish blue	tanish blue	tanish blue
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1. SAMPLE NUMBER	2. LATITUDE	3. LONGITUDE	4. DATE (day, month, year)	5. SHIPPER TYPE
65-230-1-1 CONT				
6. SUBSTRATE MINERALS	7. CORE DEPTH (m)	8. CORE LOCATION (lat, lon)	9. CORE PENETRATION (m)	
	39.8	18-17	92-94	39.8
10. CORRELATION DEPTH IN CORE (m)	84-16	Common Blue Green	Dark Brown	98-100
11. COLOR	Common Blue Green (5.5-6.2)	Common Blue Green (5.5-6.2) Normal Dark Green 16	Common Blue Green (5.5-6.2) Normal Dark Green 16	Common Blue Green (5.5-6.2) Normal Dark Green 16
12. ODSR	13. REE/OESR (%)	14. REE/OESR (%)	15. REE/OESR (%)	16. REE/OESR (%)
17. MINERAL PROSPECT (%)	18. MINERAL PROSPECT (%)	19. MINERAL PROSPECT (%)	20. MINERAL PROSPECT (%)	21. MINERAL PROSPECT (%)
22. WATER CONTENT (%)	23. WATER CONTENT (%)	24. WATER CONTENT (%)	25. WATER CONTENT (%)	26. WATER CONTENT (%)
27. ORGANIC CARBON CONTENT (%)	28. ORGANIC CARBON CONTENT (%)	29. ORGANIC CARBON CONTENT (%)	30. ORGANIC CARBON CONTENT (%)	31. ORGANIC CARBON CONTENT (%)
32. SUE ANALYSIS AND STATISTICAL MEASURES	33. SUE ANALYSIS AND STATISTICAL MEASURES	34. SUE ANALYSIS AND STATISTICAL MEASURES	35. SUE ANALYSIS AND STATISTICAL MEASURES	36. SUE ANALYSIS AND STATISTICAL MEASURES
1. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 2.34	σ_2 , 14.2	σ_3 , 2.50	σ_4 , 2.88
2. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 4.79	σ_2 , 10.33	σ_3 , 10.54	σ_4 , 4.39
3. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 5.55	σ_2 , 3.90	σ_3 , 5.00	σ_4 , 4.61
4. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 4.00	σ_2 , 2.61	σ_3 , 3.00	σ_4 , 2.82
5. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 8.69	σ_2 , 5.55	σ_3 , 8.07	σ_4 , 9.07
6. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 16	σ_2 , 9	σ_3 , 10	σ_4 , 10
7. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 20	σ_2 , 11	σ_3 , 15	σ_4 , 15
8. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 24	σ_2 , 25	σ_3 , 27	σ_4 , 27
9. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 12	σ_2 , 19	σ_3 , 17	σ_4 , 17
10. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 12	σ_2 , 21	σ_3 , 16	σ_4 , 16
11. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 20.44	σ_2 , 25.30	σ_3 , 14.13	σ_4 , 25.26
12. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 20.44	σ_2 , 25.30	σ_3 , 14.13	σ_4 , 25.26
13. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 20.44	σ_2 , 25.30	σ_3 , 14.13	σ_4 , 25.26
14. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 20.44	σ_2 , 25.30	σ_3 , 14.13	σ_4 , 25.26
15. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 20.44	σ_2 , 25.30	σ_3 , 14.13	σ_4 , 25.26
16. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 20.44	σ_2 , 25.30	σ_3 , 14.13	σ_4 , 25.26
17. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 20.44	σ_2 , 25.30	σ_3 , 14.13	σ_4 , 25.26
18. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 20.44	σ_2 , 25.30	σ_3 , 14.13	σ_4 , 25.26
19. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 20.44	σ_2 , 25.30	σ_3 , 14.13	σ_4 , 25.26
20. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 20.44	σ_2 , 25.30	σ_3 , 14.13	σ_4 , 25.26
21. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 20.44	σ_2 , 25.30	σ_3 , 14.13	σ_4 , 25.26
22. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 20.44	σ_2 , 25.30	σ_3 , 14.13	σ_4 , 25.26
23. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 20.44	σ_2 , 25.30	σ_3 , 14.13	σ_4 , 25.26
24. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 20.44	σ_2 , 25.30	σ_3 , 14.13	σ_4 , 25.26
25. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 20.44	σ_2 , 25.30	σ_3 , 14.13	σ_4 , 25.26
26. σ_1 , σ_2 , σ_3 (ksi)	σ_1 , 20.44			

Continued
86-100 in. contain several very thin sandy layers.
17 ft - 22 ft of wood.

SEDIMENT TYPE	SILT	MUD	CLAY	SILT	CLAY	COVER	SILT
1. σ_v to σ_p (s)							
2. σ_v to σ_p (s)							
3. σ_v to σ_p (s)							
4. σ_v to σ_p (s)							
5. σ_v to σ_p (s)							
6. σ_v to σ_p (s)							
7. σ_v to σ_p (s)							
8. σ_v to σ_p (s)							
9. σ_v to σ_p (s)							
10. σ_v to σ_p (s)							
11. σ_v to σ_p (s)							
12. σ_v to σ_p (s)							
13. σ_v to σ_p (s)							
14. σ_v to σ_p (s)							
15. σ_v to σ_p (s)							
16. σ_v to σ_p (s)							
17. σ_v to σ_p (s)							
18. σ_v to σ_p (s)							
19. σ_v to σ_p (s)							
20. σ_v to σ_p (s)							
21. σ_v to σ_p (s)							
22. σ_v to σ_p (s)							
23. σ_v to σ_p (s)							
24. σ_v to σ_p (s)							
25. SECONDARY MINERAL (%)							
26. OTHER MINERALS (%)							
27. REMARKS							

1. SAMPLE NUMBER	66-140-1	5. SAMPLER TYPE	HULLWEDGE
2. LATITUDE	24	6. WATER DEPTH (m.)	83
3. LONGITUDE	68 50	7. CORE LENGTH (m.)	126
8. DATE (day, month, year)	14 February 1959	8. CORE PENETRATION (m.)	
9. LABORATORY NUMBER	3991 +		3993
10. SUSPENSIBLE DEPTH IN CORE (m.)	0-2		62-64
11. COLOR	DRY GRAY (5Y 4/6)		DRY GRAY (5Y 4/6)
12. ODDS			
13. NET DENSITY (lb./ft ³)			
14. RIGIDITY (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2 ₅ (%)	DP ₅	DP ₅	DP ₅
b. < 2 ₅ to < 1 ₅ (%)	SK ₅	SK ₅	SK ₅
c. < 1 ₅ to 0 ₅ (%)	M ₅ 8.58	M ₅ 8.45	M ₅ 8.56
d. 0 ₅ to 1 ₅ (%)	2 01.691	2 01.674	2 01.683
e. 1 ₅ to 2 ₅ (%)	DP ₅	DP ₅	DP ₅
f. 2 ₅ to 3 ₅ (%)			
g. 3 ₅ to 4 ₅ (%)			
h. 4 ₅ to 6 ₅ (%)	12	12	13
i. 6 ₅ to 9 ₅ (%)	43	43	42
j. > 9 ₅ (%)	42	41	44
20. SUSPENSIBLE DRY WEIGHT (gm)	1392	1634	1536
21. SPHERICITY (mm)			17.44
22. PLASTICITY (mm)	H: 8.4	H: 8.6	H: 8.6
23. SHRECK-TESTING (mm) (mm) (mm)	2.19	0	2.19
24. IMPACT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS	ITEMS 11-26 DETERMINED IN THE LAB		

* THE SAMPLE CONTAINED DARK STREAKS.
FEW SHELL SCATTERED THROUGHOUT CORE.

SEDIMENT TYPE	CORREY Silt	CORREY Silt	CORREY Silt
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1. SAMPLE NUMBER	66-140-1	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
8. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBER	3994		3996
10. SUSPENSIBLE DEPTH IN CORE (m.)	81-82		109-111
11. COLOR	DRY GRAY (5Y 4/6)		DRY GRAY (5Y 4/6)
12. ODDS			
13. NET DENSITY (lb./ft ³)			
14. RIGIDITY (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2 ₅ (%)	DP ₅	DP ₅	DP ₅
b. < 2 ₅ to < 1 ₅ (%)	SK ₅	SK ₅	SK ₅
c. < 1 ₅ to 0 ₅ (%)	M ₅ 8.51	M ₅ 8.61	M ₅ 8.65
d. 0 ₅ to 1 ₅ (%)	1 01.662	1 01.674	2 01.701
e. 1 ₅ to 2 ₅ (%)	DP ₅	DP ₅	DP ₅
f. 2 ₅ to 3 ₅ (%)	1	1	
g. 3 ₅ to 4 ₅ (%)			
h. 4 ₅ to 6 ₅ (%)	14	12	11
i. 6 ₅ to 9 ₅ (%)	39	39	42
j. > 9 ₅ (%)	42	44	45
20. SUSPENSIBLE DRY WEIGHT (gm)	1701	1488	1404
21. SPHERICITY (mm)			
22. PLASTICITY (mm)	H: 8.4	H: 8.6	H: 8.6
23. SHRECK-TESTING (mm) (mm) (mm)	0	0	0
24. IMPACT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS	0-9" and 119-126" contained black layers - Color change at 46" and 96"		

SEDIMENT TYPE	CORREY Silt	CORREY Silt	CORREY Silt
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1. SAMPLE NUMBER	66-141-1	5. SAMPLER TYPE	Kullenberg
2. LATITUDE	44 14 53 N	5. WATER DEPTH (m.)	503
3. LONGITUDE	68 53 48 W	7. CORE LENGTH (m.)	118
4. DATE	15 September 1959	8. CORE PENETRATION (m.)	144
9. LABORATORY NUMBERS	3941	3942 *	3943 *
10. SUBSAMPLE DEPTH IN CORE (m.)	0-6	6-8	8-10
11. COLOR	Dark Greenish Gray 5041/2, Olive Gray 5041/3, Olive Gray 5041/4	Dark Greenish Gray 5041/2, Gray 5041/3, Gray 5041/4, Olive Gray 5041/5	Dark Greenish Gray 5041/2, Gray 5041/3, Gray 5041/4, Olive Gray 5041/5
12. OTHER			
13. WET DENSITY (lb./ft ³)			
14. RESIDUUM (%)			
15. MAXIMUM POROSITY (%)			
16. MEDIUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SITE ANALYSIS AND STATISTICAL MEASURES			
a. $\bar{x} \pm 2s$ (%)	$\bar{x}_1 = 2.73$ $\bar{x}_2 = 10.89$ $\bar{x}_3 = 4.90$ $\bar{x}_4 = 3.06$ $\bar{x}_5 = 8.52$ $\bar{x}_6 = 1.8$ $\bar{x}_7 = 1.3$ $\bar{x}_8 = 14$ $\bar{x}_9 = 27$ $\bar{x}_{10} = 23$	$\bar{x}_1 = 3$ $\bar{x}_2 = 2$ $\bar{x}_3 = 1$ $\bar{x}_4 = 1$ $\bar{x}_5 = 2$ $\bar{x}_6 = 7$ $\bar{x}_7 = 6$ $\bar{x}_8 = 13$ $\bar{x}_9 = 33$ $\bar{x}_{10} = 33$	$\bar{x}_1 = 1$ $\bar{x}_2 = 1$ $\bar{x}_3 = 1$ $\bar{x}_4 = 1$ $\bar{x}_5 = 1$ $\bar{x}_6 = 2$ $\bar{x}_7 = 2$ $\bar{x}_8 = 15$ $\bar{x}_9 = 39$ $\bar{x}_{10} = 40$
b. $\bar{x} \pm 2s$ (%)	$\bar{x}_1 = 10.89$ $\bar{x}_2 = 4.90$ $\bar{x}_3 = 3.06$ $\bar{x}_4 = 8.52$ $\bar{x}_5 = 1.8$ $\bar{x}_6 = 1.3$ $\bar{x}_7 = 14$ $\bar{x}_8 = 27$ $\bar{x}_9 = 23$	$\bar{x}_1 = 2$ $\bar{x}_2 = 1$ $\bar{x}_3 = 1$ $\bar{x}_4 = 1$ $\bar{x}_5 = 2$ $\bar{x}_6 = 7$ $\bar{x}_7 = 6$ $\bar{x}_8 = 13$ $\bar{x}_9 = 33$ $\bar{x}_{10} = 33$	$\bar{x}_1 = 1$ $\bar{x}_2 = 1$ $\bar{x}_3 = 1$ $\bar{x}_4 = 1$ $\bar{x}_5 = 1$ $\bar{x}_6 = 2$ $\bar{x}_7 = 2$ $\bar{x}_8 = 15$ $\bar{x}_9 = 39$ $\bar{x}_{10} = 40$
c. $\bar{x} \pm 2s$ (%)	$\bar{x}_1 = 10.89$ $\bar{x}_2 = 4.90$ $\bar{x}_3 = 3.06$ $\bar{x}_4 = 8.52$ $\bar{x}_5 = 1.8$ $\bar{x}_6 = 1.3$ $\bar{x}_7 = 14$ $\bar{x}_8 = 27$ $\bar{x}_9 = 23$	$\bar{x}_1 = 2$ $\bar{x}_2 = 1$ $\bar{x}_3 = 1$ $\bar{x}_4 = 1$ $\bar{x}_5 = 2$ $\bar{x}_6 = 7$ $\bar{x}_7 = 6$ $\bar{x}_8 = 13$ $\bar{x}_9 = 33$ $\bar{x}_{10} = 33$	$\bar{x}_1 = 1$ $\bar{x}_2 = 1$ $\bar{x}_3 = 1$ $\bar{x}_4 = 1$ $\bar{x}_5 = 1$ $\bar{x}_6 = 2$ $\bar{x}_7 = 2$ $\bar{x}_8 = 15$ $\bar{x}_9 = 39$ $\bar{x}_{10} = 40$
d. $\bar{x} \pm 2s$ (%)	$\bar{x}_1 = 10.89$ $\bar{x}_2 = 4.90$ $\bar{x}_3 = 3.06$ $\bar{x}_4 = 8.52$ $\bar{x}_5 = 1.8$ $\bar{x}_6 = 1.3$ $\bar{x}_7 = 14$ $\bar{x}_8 = 27$ $\bar{x}_9 = 23$	$\bar{x}_1 = 2$ $\bar{x}_2 = 1$ $\bar{x}_3 = 1$ $\bar{x}_4 = 1$ $\bar{x}_5 = 2$ $\bar{x}_6 = 7$ $\bar{x}_7 = 6$ $\bar{x}_8 = 13$ $\bar{x}_9 = 33$ $\bar{x}_{10} = 33$	$\bar{x}_1 = 1$ $\bar{x}_2 = 1$ $\bar{x}_3 = 1$ $\bar{x}_4 = 1$ $\bar{x}_5 = 1$ $\bar{x}_6 = 2$ $\bar{x}_7 = 2$ $\bar{x}_8 = 15$ $\bar{x}_9 = 39$ $\bar{x}_{10} = 40$
e. $\bar{x} \pm 2s$ (%)	$\bar{x}_1 = 10.89$ $\bar{x}_2 = 4.90$ $\bar{x}_3 = 3.06$ $\bar{x}_4 = 8.52$ $\bar{x}_5 = 1.8$ $\bar{x}_6 = 1.3$ $\bar{x}_7 = 14$ $\bar{x}_8 = 27$ $\bar{x}_9 = 23$	$\bar{x}_1 = 2$ $\bar{x}_2 = 1$ $\bar{x}_3 = 1$ $\bar{x}_4 = 1$ $\bar{x}_5 = 2$ $\bar{x}_6 = 7$ $\bar{x}_7 = 6$ $\bar{x}_8 = 13$ $\bar{x}_9 = 33$ $\bar{x}_{10} = 33$	$\bar{x}_1 = 1$ $\bar{x}_2 = 1$ $\bar{x}_3 = 1$ $\bar{x}_4 = 1$ $\bar{x}_5 = 1$ $\bar{x}_6 = 2$ $\bar{x}_7 = 2$ $\bar{x}_8 = 15$ $\bar{x}_9 = 39$ $\bar{x}_{10} = 40$
f. $\bar{x} \pm 2s$ (%)	$\bar{x}_1 = 10.89$ $\bar{x}_2 = 4.90$ $\bar{x}_3 = 3.06$ $\bar{x}_4 = 8.52$ $\bar{x}_5 = 1.8$ $\bar{x}_6 = 1.3$ $\bar{x}_7 = 14$ $\bar{x}_8 = 27$ $\bar{x}_9 = 23$	$\bar{x}_1 = 2$ $\bar{x}_2 = 1$ $\bar{x}_3 = 1$ $\bar{x}_4 = 1$ $\bar{x}_5 = 2$ $\bar{x}_6 = 7$ $\bar{x}_7 = 6$ $\bar{x}_8 = 13$ $\bar{x}_9 = 33$ $\bar{x}_{10} = 33$	$\bar{x}_1 = 1$ $\bar{x}_2 = 1$ $\bar{x}_3 = 1$ $\bar{x}_4 = 1$ $\bar{x}_5 = 1$ $\bar{x}_6 = 2$ $\bar{x}_7 = 2$ $\bar{x}_8 = 15$ $\bar{x}_9 = 39$ $\bar{x}_{10} = 40$
20. SUBSAMPLE DRY WEIGHT (mg)	3844	3859	2889
21. SPHERULITY (mg)	High	High	High
22. PLASTICITY (mg)	High	High	High
23. SHEAR STRENGTH (mg)	High	High	High
24. DRYWEIGHT MINERAL (%)	0	0	0
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS: Items 11-23 determined in the lab			
* Sample contained black layers.			
Dark pebbles at top of core. Submerged 2 1/2" x 1 1/2" 518gms.			
0-6" Sandy mud w/ blue-green clay balls			
Sediment Type			
Silty Mud			
Clayey Silty			

1. SAMPLE NUMBER	66-141-1	5. SAMPLER TYPE	
2. LATITUDE		5. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3945	3946	3947
10. SUBSAMPLE DEPTH IN CORE (m.)	11-20	20-31	31-41
11. COLOR	Dark Greenish Gray 5041/1	Olive Gray 5041/2	Moderate Olive Brown 5041/3
12. OTHER			
13. WET DENSITY (lb./ft ³)			
14. RESIDUUM (%)			
15. MAXIMUM POROSITY (%)			
16. MEDIUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SITE ANALYSIS AND STATISTICAL MEASURES			
a. $\bar{x} \pm 2s$ (%)	$\bar{x}_1 = 2.73$ $\bar{x}_2 = 10.89$ $\bar{x}_3 = 4.90$ $\bar{x}_4 = 3.06$ $\bar{x}_5 = 8.52$ $\bar{x}_6 = 1.8$ $\bar{x}_7 = 1.3$ $\bar{x}_8 = 14$ $\bar{x}_9 = 27$ $\bar{x}_{10} = 23$	$\bar{x}_1 = 3$ $\bar{x}_2 = 2$ $\bar{x}_3 = 1$ $\bar{x}_4 = 1$ $\bar{x}_5 = 2$ $\bar{x}_6 = 7$ $\bar{x}_7 = 6$ $\bar{x}_8 = 13$ $\bar{x}_9 = 33$ $\bar{x}_{10} = 33$	$\bar{x}_1 = 1$ $\bar{x}_2 = 1$ $\bar{x}_3 = 1$ $\bar{x}_4 = 1$ $\bar{x}_5 = 1$ $\bar{x}_6 = 2$ $\bar{x}_7 = 2$ $\bar{x}_8 = 15$ $\bar{x}_9 = 39$ $\bar{x}_{10} = 40$
b. $\bar{x} \pm 2s$ (%)	$\bar{x}_1 = 10.89$ $\bar{x}_2 = 4.90$ $\bar{x}_3 = 3.06$ $\bar{x}_4 = 8.52$ $\bar{x}_5 = 1.8$ $\bar{x}_6 = 1.3$ $\bar{x}_7 = 14$ $\bar{x}_8 = 27$ $\bar{x}_9 = 23$	$\bar{x}_1 = 2$ $\bar{x}_2 = 1$ $\bar{x}_3 = 1$ $\bar{x}_4 = 1$ $\bar{x}_5 = 2$ $\bar{x}_6 = 7$ $\bar{x}_7 = 6$ $\bar{x}_8 = 13$ $\bar{x}_9 = 33$ $\bar{x}_{10} = 33$	$\bar{x}_1 = 1$ $\bar{x}_2 = 1$ $\bar{x}_3 = 1$ $\bar{x}_4 = 1$ $\bar{x}_5 = 1$ $\bar{x}_6 = 2$ $\bar{x}_7 = 2$ $\bar{x}_8 = 15$ $\bar{x}_9 = 39$ $\bar{x}_{10} = 40$
c. $\bar{x} \pm 2s$ (%)	$\bar{x}_1 = 10.89$ $\bar{x}_2 = 4.90$ $\bar{x}_3 = 3.06$ $\bar{x}_4 = 8.52$ $\bar{x}_5 = 1.8$ $\bar{x}_6 = 1.3$ $\bar{x}_7 = 14$ $\bar{x}_8 = 27$ $\bar{x}_9 = 23$	$\bar{x}_1 = 2$ $\bar{x}_2 = 1$ $\bar{x}_3 = 1$ $\bar{x}_4 = 1$ $\bar{x}_5 = 2$ $\bar{x}_6 = 7$ $\bar{x}_7 = 6$ $\bar{x}_8 = 13$ $\bar{x}_9 = 33$ $\bar{x}_{10} = 33$	$\bar{x}_1 = 1$ $\bar{x}_2 = 1$ $\bar{x}_3 = 1$ $\bar{x}_4 = 1$ $\bar{x}_5 = 1$ $\bar{x}_6 = 2$ $\bar{x}_7 = 2$ $\bar{x}_8 = 15$ $\bar{x}_9 = 39$ $\bar{x}_{10} = 40$
d. $\bar{x} \pm 2s$ (%)	$\bar{x}_1 = 10.89$ $\bar{x}_2 = 4.90$ $\bar{x}_3 = 3.06$ $\bar{x}_4 = 8.52$ $\bar{x}_5 = 1.8$ $\bar{x}_6 = 1.3$ $\bar{x}_7 = 14$ $\bar{x}_8 = 27$ $\bar{x}_9 = 23$	$\bar{x}_1 = 2$ $\bar{x}_2 = 1$ $\bar{x}_3 = 1$ $\bar{x}_4 = 1$ $\bar{x}_5 = 2$ $\bar{x}_6 = 7$ $\bar{x}_7 = 6$ $\bar{x}_8 = 13$ $\bar{x}_9 = 33$ $\bar{x}_{10} = 33$	$\bar{x}_1 = 1$ $\bar{x}_2 = 1$ $\bar{x}_3 = 1$ $\bar{x}_4 = 1$ $\bar{x}_5 = 1$ $\bar{x}_6 = 2$ $\bar{x}_7 = 2$ $\bar{x}_8 = 15$ $\bar{x}_9 = 39$ $\bar{x}_{10} = 40$
e. $\bar{x} \pm 2s$ (%)	$\bar{x}_1 = 10.89$ $\bar{x}_2 = 4.90$ $\bar{x}_3 = 3.06$ $\bar{x}_4 = 8.52$ $\bar{x}_5 = 1.8$ $\bar{x}_6 = 1.3$ $\bar{x}_7 = 14$ $\bar{x}_8 = 27$ $\bar{x}_9 = 23$	$\bar{x}_1 = 2$ $\bar{x}_2 = 1$ $\bar{x}_3 = 1$ $\bar{x}_4 = 1$ $\bar{x}_5 = 2$ $\bar{x}_6 = 7$ $\bar{x}_7 = 6$ $\bar{x}_8 = 13$ $\bar{x}_9 = 33$ $\bar{x}_{10} = 33$	$\bar{x}_1 = 1$ $\bar{x}_2 = 1$ $\bar{x}_3 = 1$ $\bar{x}_4 = 1$ $\bar{x}_5 = 1$ $\bar{x}_6 = 2$ $\bar{x}_7 = 2$ $\bar{x}_8 = 15$ $\bar{x}_9 = 39$ $\bar{x}_{10} = 40$
f. $\bar{x} \pm 2s$ (%)	$\bar{x}_1 = 10.89$ $\bar{x}_2 = 4.90$ $\bar{x}_3 = 3.06$ $\bar{x}_4 = 8.52$ $\bar{x}_5 = 1.8$ $\bar{x}_6 = 1.3$ $\bar{x}_7 = 14$ $\bar{x}_8 = 27$ $\bar{x}_9 = 23$	$\bar{x}_1 = 2$ $\bar{x}_2 = 1$ $\bar{x}_3 = 1$ $\bar{x}_4 = 1$ $\bar{x}_5 = 2$ $\bar{x}_6 = 7$ $\bar{x}_7 = 6$ $\bar{x}_8 = 13$ $\bar{x}_9 = 33$ $\bar{x}_{10} = 33$	$\bar{x}_1 = 1$ $\bar{x}_2 = 1$ $\bar{x}_3 = 1$ $\bar{x}_4 = 1$ $\bar{x}_5 = 1$ $\bar{x}_6 = 2$ $\bar{x}_7 = 2$ $\bar{x}_8 = 15$ $\bar{x}_9 = 39$ $\bar{x}_{10} = 40$
20. SUBSAMPLE DRY WEIGHT (mg)	3844	3859	2889
21. SPHERULITY (mg)	High	High	High
22. PLASTICITY (mg)	High	High	High
23. SHEAR STRENGTH (mg)	High	High	High
24. DRYWEIGHT MINERAL (%)	0	0	0
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS: Continued			
6-20" Clay and silt w/ yellow-green clay balls 6-10"			
20-31" Sandy mud			
31-32" Clay & silt w/ light gray mud			
32-36" Sandy mud, soft. Clay ball at 36"			
Sediment Type			
Clayey Silt			
Clayey Silt			

1. SAMPLE NUMBER	66-141-1 continued				5. SAMPLER TYPE
2. LATITUDE					5. WATER DEPTH (m.)
3. LONGITUDE					7. CORE LENGTH (m.)
4. DATE (day, month, year)					8. CORE PENETRATION (m.)
9. LABORATORY NUMBERS	3049	3050	3051	3052	
10. SUBSAMPLE DEPTH IN CORE (m.)	32-34	34-36	36-38	38-40	
11. COLOR	Olive Gray 5Y4/1, Medium Gray N5	Olive Gray 5Y4/1, Medium Gray N5	Olive Gray 5Y4/1, Medium Gray N5	Medium Gray N6 Black N1	
12. MOON					
13. WET DENSITY (lb./ft. ³)					
14. FIDUCIAL (mm)					
15. MAXIMUM POROSITY (%)					
16. MINIMUM POROSITY (%)					
17. WATER CONTENT (%)					
18. ORGANIC CARBON CONTENT (%)					
19. SIZE ANALYSIS AND STATISTICAL MEASURES					
a. < 2 ₅ (φ)	00 ₂	50 ₂	10 ₂	00 ₂	
b. < 2 ₅ to < 1 ₂ (φ)	50 ₂	50 ₂	50 ₂	50 ₂	
c. < 1 ₂ to < 0 ₈ (φ)	1	4	1	1	
d. < 0 ₈ to < 0 ₄ (φ)	7.33	41.6	1.92	8.58	
e. < 0 ₄ to < 0 ₂ (φ)	4.10	0.2	0.14	0.2	
f. < 0 ₂ to < 0 ₁ (φ)	2	2	1	1	
g. < 0 ₁ to < 0 ₀ (φ)	11	11			
h. < 0 ₀ to < 0 ₀ (φ)	10	10			
i. < 0 ₀ to < 0 ₀ (φ)	15	12	22	16	
j. < 0 ₀ to < 0 ₀ (φ)	28	27	41	38	
k. < 0 ₀ to < 0 ₀ (φ)	33	29	36	44	
l. < 0 ₀ to < 0 ₀ (φ)	28.28	31.21	36.41	41.08	
20. SUBSAMPLE DRY WEIGHT (gm)					
21. SPHERICITY (mm)					
22. PLASTICITY (mm)	High	High	High	High	
23. SHRECK-TEST (mm)	0	0	0	0	
24. SHRECK-TEST (mm)	0	0	0	0	
25. SECONDARY MINERAL (%)					
26. OTHER MINERALS (%)					
27. REMARKS:	36-118 Clay + Silt - Clay balls at 42", 64" Black layers become numerous and thick at 45" Beginning at 90", scattered pebbles 36-8" areas of soft olive gray mud				
Sediment Type	Silty Mud	Silty Mud	Clayey Silt	Clayey Silt	

1. SAMPLE NUMBER	66-141-1 continued				5. SAMPLER TYPE
2. LATITUDE					5. WATER DEPTH (m.)
3. LONGITUDE					7. CORE LENGTH (m.)
4. DATE (day, month, year)					8. CORE PENETRATION (m.)
9. LABORATORY NUMBERS	3053	3054	3055	3056	
10. SUBSAMPLE DEPTH IN CORE (m.)	57-59	59-61	61-63	63-65	
11. COLOR	Olive Gray 5Y4/1, Medium Gray, N5	Olive Gray 5Y4/1, Medium Gray, N5	Olive Gray 5Y4/1, Medium Gray, N5	Olive Gray 5Y4/1, Medium Gray, N5	Medium Gray N5
12. MOON					
13. WET DENSITY (lb./ft. ³)					
14. FIDUCIAL (mm)					
15. MINIMUM POROSITY (%)					
16. MINIMUM POROSITY (%)					
17. WATER CONTENT (%)					
18. ORGANIC CARBON CONTENT (%)					
19. SIZE ANALYSIS AND STATISTICAL MEASURES					
a. < 2 ₅ (φ)	0.04	0.05	0.05	0.05	0.05
b. < 2 ₅ to < 1 ₂ (φ)	0.04	0.05	0.05	0.05	0.05
c. < 1 ₂ to < 0 ₈ (φ)	0.04	0.05	0.05	0.05	0.05
d. < 0 ₈ to < 0 ₄ (φ)	0.04	0.05	0.05	0.05	0.05
e. < 0 ₄ to < 0 ₂ (φ)	0.04	0.05	0.05	0.05	0.05
f. < 0 ₂ to < 0 ₁ (φ)	0.04	0.05	0.05	0.05	0.05
g. < 0 ₁ to < 0 ₀ (φ)	0.04	0.05	0.05	0.05	0.05
h. < 0 ₀ to < 0 ₀ (φ)	0.04	0.05	0.05	0.05	0.05
i. < 0 ₀ to < 0 ₀ (φ)	0.04	0.05	0.05	0.05	0.05
j. < 0 ₀ to < 0 ₀ (φ)	0.04	0.05	0.05	0.05	0.05
k. < 0 ₀ to < 0 ₀ (φ)	0.04	0.05	0.05	0.05	0.05
20. SUBSAMPLE DRY WEIGHT (gm)	35.36	34.16	39.00	33.71	
21. SPHERICITY (mm)					
22. PLASTICITY (mm)	High	High	High	High	
23. SHRECK-TEST (mm)	0	0	0	0	
24. SHRECK-TEST (mm)	0	0	0	0	
25. SECONDARY MINERAL (%)					
26. OTHER MINERALS (%)					
27. REMARKS:	57-58 soft olive gray mud 81-83 Hard gritty + granular layer 83-89 Many dark bands + areas of soft mud. 89-118 regular black layering				
Sediment Type	Clayey Silt	Clayey Silt	Clayey Silt	Clayey Silt	Clayey Silt

1. SAMPLE NUMBER	66-141-1 continued				5. SAMPLE TYPE	
2. LATITUDE		3. WATER DEPTH (m)		7. CORE LENGTH (m)		
3. LONGITUDE		4. DATE (day, month, year)		8. CORE PRECURATION (m)		
9. LABORATORY NUMBERS	39557	39558	39559	3960		
10. SUBSAMPLE DEPTH IN CORE (m)	21-23	23-25	27-29	31-33		
11. COLOR	Medium Gray	Medium Gray	Medium Gray	Medium Gray		
12. DENSITY						
13. NET DENSITY (lb./ft ³)						
14. RIGIDITY (cm)						
15. MECHAN PROSITY (%)						
16. MECHAN PROSITY (%)						
17. WATER CONTENT (%)						
18. ORGANIC CARBON CONTENT (%)						
19. SITE ANALYSIS AND STATISTICAL MEASURES						
20. SUSCEPTIBLE DRY WEIGHT (%)	39.25	21.48	30.53	35.87		
21. SUSCEPTIBILITY	High	High	High	High		
22. SUSCEPTIBILITY	Plasticity	Plasticity	Plasticity	Plasticity		
23. SUSCEPTIBILITY	Plasticity	Plasticity	Plasticity	Plasticity		
24. SUSCEPTIBILITY	Plasticity	Plasticity	Plasticity	Plasticity		
25. SUSCEPTIBILITY	Plasticity	Plasticity	Plasticity	Plasticity		
26. SUSCEPTIBILITY	Plasticity	Plasticity	Plasticity	Plasticity		
27. SUSCEPTIBILITY	Plasticity	Plasticity	Plasticity	Plasticity		

1. SAMPLE NUMBER	65-141-1 continued				5. SAMPLE TYPE	
2. LATITUDE		3. WATER DEPTH (m)		7. CORE LENGTH (m)		
3. LONGITUDE		4. DATE (day, month, year)		8. CORE PRECURATION (m)		
9. LABORATORY NUMBERS	3961 *	3962	3963	3964		
10. SUBSAMPLE DEPTH IN CORE (m)	170-162	162-154	154-146	146-138		
11. COLOR	Medium Gray	Medium Gray	Medium Gray	Medium Gray		
12. DENSITY						
13. NET DENSITY (lb./ft ³)						
14. RIGIDITY (cm)						
15. MECHAN PROSITY (%)						
16. MECHAN PROSITY (%)						
17. WATER CONTENT (%)						
18. ORGANIC CARBON CONTENT (%)						
19. SITE ANALYSIS AND STATISTICAL MEASURES						
20. SUSCEPTIBLE DRY WEIGHT (%)	33.88	31.18	31.18	31.18		
21. SUSCEPTIBILITY	High	High	High	High		
22. SUSCEPTIBILITY	Plasticity	Plasticity	Plasticity	Plasticity		
23. SUSCEPTIBILITY	Plasticity	Plasticity	Plasticity	Plasticity		
24. SUSCEPTIBILITY	Plasticity	Plasticity	Plasticity	Plasticity		
25. SUSCEPTIBILITY	Plasticity	Plasticity	Plasticity	Plasticity		
26. SUSCEPTIBILITY	Plasticity	Plasticity	Plasticity	Plasticity		
27. SUSCEPTIBILITY	Plasticity	Plasticity	Plasticity	Plasticity		

1. SAMPLE NUMBER	66-142-1	5. SAMPLER TYPE	KULLENBERG
2. LATITUDE	44° 16' N	6. WATER DEPTH (m.)	16.2
3. LONGITUDE	68° 53' W	7. CORE LENGTH (m.)	92
8. DATE (mo., month, year)	15 SEPTEMBER 1959	8. CORE PENETRATION (m.)	120
9. LABORATORY NUMBERS	3878	9. LABORATORY NUMBERS	3879
10. SUBSAMPLE DEPTH IN CORE (m.)	0-4	10. SUBSAMPLE DEPTH IN CORE (m.)	4-6
11. COLOR	Dark Greenish Gray (50-60% Mo. Gray)	11. COLOR	Dark Greenish Gray (50-60% Mo. Gray)
12. DOOR	0-4	12. DOOR	4-6
13. WET DENSITY (lb./ft ³)		13. WET DENSITY (lb./ft ³)	
14. RIGIDITY (mm)		14. RIGIDITY (mm)	
15. MAXIMUM POROSITY (%)		15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES		19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 ₅ (φ)	13	φ ₂₅	13
b. 2 ₅ to 4 ₄ (φ)	1	φ ₄₄	1
c. 4 ₄ to 6 ₃₅ (φ)	1	φ ₆₃₅	1
d. 6 ₃₅ to 1 ₄ (φ)	1	φ ₁₄	1
e. 1 ₄ to 2 ₅ (φ)	2	φ ₂₅	2
f. 2 ₅ to 3 ₅ (φ)	4	φ ₃₅	4
g. 3 ₅ to 4 ₄ (φ)	9	φ ₄₄	9
h. 4 ₄ to 6 ₃₅ (φ)	16	φ ₆₃₅	16
i. 6 ₃₅ to 1 ₄ (φ)	27	φ ₁₄	27
j. > 1 ₄ (φ)	27	φ ₁₄	27
20. SUBSAMPLER DRY WEIGHT (gm)	35.21	20. SUBSAMPLER DRY WEIGHT (gm)	35.11
21. SPHERICITY (ave)	High	21. SPHERICITY (ave)	High
22. PLASTICITY	Plasticity	22. PLASTICITY	Plasticity
23. LIQUID LIMIT (ave) (mm)	0	23. LIQUID LIMIT (ave) (mm)	0
24. SHrinkAGE (ave) (%)	0	24. SHrinkAGE (ave) (%)	0
25. SECONDARY MINERAL (%)		25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)		26. OTHER MINERALS (%)	
27. REMARKS	ITEMS 11-16 DETERMINED IN THE LAB. 0-4" Soft green, pebbly mud w/ black and gray layers. 4-18" layer of hard, sticky, green clay 4-18" Hard, gray clay-silt, lenses of olive gray mud, dark layers.		
SEDIMENT TYPE	CLAYEY SILT	SEDIMENT TYPE	CLAYEY SILT

1. SAMPLE NUMBER	66-142-1	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
8. DATE (mo., month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3882	9. LABORATORY NUMBERS	3883
10. SUBSAMPLE DEPTH IN CORE (m.)	17-22	10. SUBSAMPLE DEPTH IN CORE (m.)	22-24
11. COLOR	Dark Gray (5-4)	11. COLOR	Medium Dark Gray (5-4)
12. DOOR		12. DOOR	
13. WET DENSITY (lb./ft ³)		13. WET DENSITY (lb./ft ³)	
14. RIGIDITY (mm)		14. RIGIDITY (mm)	
15. MAXIMUM POROSITY (%)		15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES		19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 ₅ (φ)	1	φ ₂₅	1
b. 2 ₅ to 4 ₄ (φ)	1	φ ₄₄	1
c. 4 ₄ to 6 ₃₅ (φ)	1	φ ₆₃₅	1
d. 6 ₃₅ to 1 ₄ (φ)	2	φ ₁₄	2
e. 1 ₄ to 2 ₅ (φ)	3	φ ₂₅	3
f. 2 ₅ to 3 ₅ (φ)	9	φ ₃₅	9
g. 3 ₅ to 4 ₄ (φ)	18	φ ₄₄	18
h. 4 ₄ to 6 ₃₅ (φ)	17	φ ₆₃₅	17
i. 6 ₃₅ to 1 ₄ (φ)	23	φ ₁₄	23
j. > 1 ₄ (φ)	25	φ ₁₄	25
20. SUBSAMPLER DRY WEIGHT (gm)	30.85	20. SUBSAMPLER DRY WEIGHT (gm)	35.70
21. SPHERICITY (ave)	Low	21. SPHERICITY (ave)	High
22. PLASTICITY	Plasticity	22. PLASTICITY	High
23. LIQUID LIMIT (ave) (mm)	0	23. LIQUID LIMIT (ave) (mm)	0
24. SHrinkAGE (ave) (%)	0	24. SHrinkAGE (ave) (%)	0
25. SECONDARY MINERAL (%)		25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)		26. OTHER MINERALS (%)	
27. REMARKS	* THE SAMPLE CONTAINED DARK SPHERES. 18-22" Sandy, soft mud 22-24" silt-clay w/ soft lenses of olive gray mud, dark layer at 54"		
SEDIMENT TYPE	Silty Mud	SEDIMENT TYPE	CLAYEY SILT

1. SAMPLE NUMBER	66-142-1 : CONTINUED	5. SAMPLER TYPE	
2. LATITUDE	44° 16' 51" N	6. WATER DEPTH (m.)	
3. LONGITUDE	68° 52' 06" W	7. CORE LENGTH (m.)	
4. DATE (day, month, year)	16 September 1959	8. CORE PENETRATION (m.)	
5. LABORATORY NUMBERS			
10. SUBSAMPLE DEPTH IN CORE (m.)	376 ★	377	388
11. COLOR	72-74 Medium Gray (M) M/W Black (N) M5	84 1/2 - 86 1/2 Medium Gray (M) M/W Moderate Olive Brown (S 1/2) Brown (S 1/2)	90-92 Medium Gray (M) M/W Moderate Olive Brown (S 1/2) Brown (S 1/2)
12. ODR			
13. MET DENSITY (lb./ft ³)			
14. RIGIDITY (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SITE ANALYSIS AND STATISTICAL MEASURES			
a. \bar{x} , σ^2 , (s)	CO ₂	CO ₂	CO ₂
b. \bar{x} , σ^2 , to \bar{x} , (s)	SE ₂	SE ₂	SE ₂
c. \bar{x} , σ^2 , to \bar{x} , (s)	MS ₂	MS ₂	MS ₂
d. \bar{x} , σ^2 , to \bar{x} , (s)	01, 6.37	01, 6.38	01, 6.61
e. \bar{x} , σ^2 , to \bar{x} , (s)	02, 3	02, 3	02, 3
f. \bar{x} , σ^2 , to \bar{x} , (s)	03, 18	03, 19	03, 16
g. \bar{x} , σ^2 , to \bar{x} , (s)	04, 38	04, 35	04, 34
h. \bar{x} , σ^2 , to \bar{x} , (s)	05, 41	05, 44	05, 47
i. \bar{x} , σ^2 , (s)	37.57	36.90	35.28
20. SUBSAMPLE DRY WEIGHT (gm)			
21. SPHERICITY (ang.)			
22. MINERALOGY	Plasticity	High	High
23. MINERALOGY (text: Shell Cn.)	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS	★ THE SAMPLE CONTAINED A HARD BLACK FOYER. Lenses of hard, st-ly, yellow-green clay at 74", 81", 85", 92"		

Sediment Type	Clayey Silt	Clayey Silt	Clayey Silt
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1. SAMPLE NUMBER	66-144-1	5. SAMPLER TYPE	
2. LATITUDE	44° 16' 51" N	6. WATER DEPTH (m.)	
3. LONGITUDE	68° 52' 06" W	7. CORE LENGTH (m.)	
4. DATE (day, month, year)	16 September 1959	8. CORE PENETRATION (m.)	
5. LABORATORY NUMBERS			
10. SUBSAMPLE DEPTH IN CORE (m.)	19.3		
11. COLOR	Dark Yellowish Brown 10YR 4/2		
12. ODR			
13. MET DENSITY (lb./ft ³)			
14. RIGIDITY (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SITE ANALYSIS AND STATISTICAL MEASURES			
a. \bar{x} , σ^2 , (s)	27	27	27
b. \bar{x} , σ^2 , to \bar{x} , (s)	7	7	7
c. \bar{x} , σ^2 , to \bar{x} , (s)	10	10	10
d. \bar{x} , σ^2 , to \bar{x} , (s)	15	15	15
e. \bar{x} , σ^2 , to \bar{x} , (s)	10	10	10
f. \bar{x} , σ^2 , to \bar{x} , (s)	3	3	3
g. \bar{x} , σ^2 , to \bar{x} , (s)	5	5	5
h. \bar{x} , σ^2 , to \bar{x} , (s)	4	4	4
i. \bar{x} , σ^2 , to \bar{x} , (s)	10	10	10
j. \bar{x} , σ^2 , (s)	32.7%	32.7%	32.7%
20. SUBSAMPLE DRY WEIGHT (gm)			
21. SPHERICITY (ang.)			
22. MINERALOGY	Plasticity	Low	Low
23. MINERALOGY (text: Shell Cn.)	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS	Items 11-26 determined in the lab		

Sediment Type	Pebbly Sand
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1. SAMPLE NUMBER	66-145-1	5. SAMPLER TYPE	KULLENBERG	
2. LATITUDE	44° 19' 02" N	5. WATER DEPTH (m.)	13.3	
3. LONGITUDE	68° 53' 08" W	7. CORE LENGTH (m.)	12.4	
4. DATE (day, month, year)	15 SEPT. 1959	8. CORE PENETRATION (m.)	13.4	
9. LABORATORY NUMBERS	3528	3529	3530	3531
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2	4-6 1/2	6 1/2-9	30-32
11. COLOR	GREENISH BROWN 542/1 *	OLIVE GRAY 542/1	OLIVE GRAY 542/1	OLIVE GRAY 542/1
12. DOOR	VERY FOUL			
13. NET DENSITY (lb./ft. ³)				
14. RIGIDNESS (cm)				
15. MAXIMUM PROBABILITY (%)				
16. MINIMUM PROBABILITY (%)				
17. WATER CONTENT (%)				
18. ORGANIC CARBON CONTENT (%)				
19. SIZE ANALYSIS AND STATISTICAL MEASURES				
a. $\sum_{i=1}^n d_i^2$ (%)	100	100	100	100
b. $\sum_{i=1}^n d_i^2 \times i^2$ (%)	82.3	89.4	88.5	82.2
c. $\sum_{i=1}^n d_i^2 \times i^3$ (%)	6.07	7.12	7.10	7.26
d. $\sum_{i=1}^n d_i^2 \times i^4$ (%)	1	1	1	1
e. $\sum_{i=1}^n d_i^2 \times i^5$ (%)	2.3	10	10	9
f. $\sum_{i=1}^n d_i^2 \times i^6$ (%)	37	40	41	42
g. $\sum_{i=1}^n d_i^2 \times i^7$ (%)	40	50	48	48
h. $\sum_{i=1}^n d_i^2 \times i^8$ (%)	15.63	17.56	18.14	20.65
20. SUBSAMPLER DRY WEIGHT (gm)				
21. SPECIFICITY (cm ³)	High	High	High	High
22. SUBSTRATE (cm ³)	Plasticity	Plasticity	Plasticity	Plasticity
23. SUBSTRATE MINERAL (%)	0	0	0	0
24. SUBSTRATE MINERAL (%)				
25. SECONDARY MINERAL (%)				
26. OTHER MINERALS (%)				
27. REMARKS: ITEM 11-26 DETERMINED IN THE LAB. * CONTAINED DARK STREAMS				
SEDIMENT TYPE	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT

A few shell fragments and worm burrows scattered throughout.

1. SAMPLE NUMBER	66-145-1	CONTINUED	5. SAMPLER TYPE	
2. LATITUDE			5. WATER DEPTH (m.)	
3. LONGITUDE			7. CORE LENGTH (m.)	
4. DATE (day, month, year)			8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3532	3533	3534	3535
10. SUBSAMPLE DEPTH IN CORE (m.)	5-2-5-4	80-82	107-110	122-124
11. COLOR	OLIVE GRAY	OLIVE GRAY	OLIVE GRAY	OLIVE GRAY
	542/1	542/1	542/1	542/1
12. DOOR				FAUL
13. NET DENSITY (lb./ft ³)				
14. RIGIDNESS (mm)				
15. MAXIMUM PROBABILITY (%)				
16. MINIMUM PROBABILITY (%)				
17. WATER CONTENT (%)				
18. ORGANIC CARBON CONTENT (%)				
19. SIZE ANALYSIS AND STATISTICAL MEASURES				
a. ϕ_{1-20} (%)	82 ₂	82 ₂	82 ₂	82 ₂
b. ϕ_{20-40} (%)	10	11	11	10
c. ϕ_{40-60} (%)	44	42	44	44
d. ϕ_{60-80} (%)	46	47	44	46
e. ϕ_{80-100} (%)	2.5-6.2	21.99	18.56	22.94
f. $\phi_{100-200}$ (%)				
g. $\phi_{200-400}$ (%)				
h. $\phi_{400-600}$ (%)				
i. $\phi_{600-800}$ (%)				
j. $\phi_{800-1000}$ (%)				
20. SUBSAMPLE DRY WEIGHT (gm)				
21. SPECIFICITY (cm ³)				
22. SUBSTRATE (cm ³)				
23. SUBSTRATE MINERAL (%)				
24. DOMINANT MINERAL (%)				
25. SECONDARY MINERAL (%)				
26. OTHER MINERALS (%)				
27. REMARKS: Cont'n read. 0-6% many asfossilizing layers of green + black clay. 107-110 zone of many dark layers.				
SEDIMENT TYPE	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT

1. SAMPLE NUMBER	66-146-1	5. SAMPLER TYPE	KULLENBERG
2. LATITUDE	44° 18' N	6. WATER DEPTH (m.)	26.7
3. LONGITUDE	68° 51' W	7. CORE LENGTH (m.)	122
4. DATE (day, month, year)	15 SEPTEMBER 1959	8. CORE PENETRATION (m.)	132
9. LABSATORY NUMBERS	36341 *	9. SUBSAMPLER DEPTH IN CORE (m.)	36336 *
10. SUBSAMPLER DEPTH IN CORE (m.)	0-2	10. SUBSAMPLER DEPTH IN CORE (m.)	22-24
11. COLOR	OLIVE GRAY (SY 362)	11. COLOR	OLIVE GRAY (SY 362)
12. DOOR	FOUL	12. DOOR	
13. MET DENSITY (lb./ft. ³)		13. MET DENSITY (lb./ft. ³)	
14. RIGIDITY (cm)		14. RIGIDITY (cm)	
15. MAXIMUM POROSITY (%)		15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SITE ANALYSIS AND STATISTICAL VALUES		19. SITE ANALYSIS AND STATISTICAL VALUES	
a. $\bar{x} \pm 2s$ (%)	8.20	a. $\bar{x} \pm 2s$ (%)	8.20
b. $\bar{x} \pm 2s$ to $\bar{x} \pm 1s$ (%)	1	b. $\bar{x} \pm 2s$ to $\bar{x} \pm 1s$ (%)	1
c. $\bar{x} \pm 1s$ to \bar{x} (%)	1	c. $\bar{x} \pm 1s$ to \bar{x} (%)	1
d. \bar{x} to \bar{x} (%)	01.620	d. \bar{x} to \bar{x} (%)	01.620
e. \bar{x} to \bar{x} (%)	1	e. \bar{x} to \bar{x} (%)	1
f. \bar{x} to \bar{x} (%)	1	f. \bar{x} to \bar{x} (%)	1
g. \bar{x} to \bar{x} (%)	16	g. \bar{x} to \bar{x} (%)	16
h. \bar{x} to \bar{x} (%)	36	h. \bar{x} to \bar{x} (%)	36
i. \bar{x} to \bar{x} (%)	46	i. \bar{x} to \bar{x} (%)	46
j. \bar{x} (%)	15.53	j. \bar{x} (%)	15.53
20. SUBSAMPLER DEPTH WEIGHT (gm)	2151	20. SUBSAMPLER DEPTH WEIGHT (gm)	2151
21. SPECIFICITY (avg.)	High	21. SPECIFICITY (avg.)	High
22. Plasticity Plasticity	High	22. Plasticity Plasticity	High
23. Shrinkage Shrinkage	0	23. Shrinkage Shrinkage	0
24. DOMINANT MINERAL (%)	1/2	24. DOMINANT MINERAL (%)	1/2
25. SECONDARY MINERAL (%)		25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)		26. OTHER MINERALS (%)	
27. REMARKS:		27. REMARKS:	
*THE SAMPLE CONTAINED BLACK STREAMS. 0-2" IN MANY DARK LAYERS + STREAKS. COLOR CHANGE AT 24"			
SEGMENT TYPE	CANVY Silt	CANVY Silt	CANVY Silt

1. SAMPLE NUMBER	66-146-1 CONTINUED	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABSATORY NUMBERS	3638	9. SUBSAMPLER DEPTH IN CORE (m.)	3639
10. SUBSAMPLER DEPTH IN CORE (m.)	82-84	10. SUBSAMPLER DEPTH IN CORE (m.)	101-103
11. COLOR	OLIVE GRAY (SY 362)	11. COLOR	OLIVE GRAY (SY 362)
12. DOOR		12. DOOR	
13. MET DENSITY (lb./ft. ³)		13. MET DENSITY (lb./ft. ³)	
14. RIGIDITY (cm)		14. RIGIDITY (cm)	
15. MAXIMUM POROSITY (%)		15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SITE ANALYSIS AND STATISTICAL VALUES		19. SITE ANALYSIS AND STATISTICAL VALUES	
a. $\bar{x} \pm 2s$ (%)	8.44	a. $\bar{x} \pm 2s$ (%)	8.44
b. $\bar{x} \pm 2s$ to $\bar{x} \pm 1s$ (%)	1	b. $\bar{x} \pm 2s$ to $\bar{x} \pm 1s$ (%)	1
c. $\bar{x} \pm 1s$ to \bar{x} (%)	2	c. $\bar{x} \pm 1s$ to \bar{x} (%)	2
d. \bar{x} to \bar{x} (%)	01.625	d. \bar{x} to \bar{x} (%)	01.625
e. \bar{x} to \bar{x} (%)	1	e. \bar{x} to \bar{x} (%)	1
f. \bar{x} to \bar{x} (%)	1	f. \bar{x} to \bar{x} (%)	1
g. \bar{x} to \bar{x} (%)	2	g. \bar{x} to \bar{x} (%)	2
h. \bar{x} to \bar{x} (%)	17	h. \bar{x} to \bar{x} (%)	17
i. \bar{x} to \bar{x} (%)	35	i. \bar{x} to \bar{x} (%)	35
j. \bar{x} (%)	44	j. \bar{x} (%)	44
20. SUBSAMPLER DEPTH WEIGHT (gm)	2468	20. SUBSAMPLER DEPTH WEIGHT (gm)	2468
21. SPECIFICITY (avg.)	High	21. SPECIFICITY (avg.)	High
22. Plasticity Plasticity	High	22. Plasticity Plasticity	High
23. Shrinkage Shrinkage	0	23. Shrinkage Shrinkage	0
24. DOMINANT MINERAL (%)	0	24. DOMINANT MINERAL (%)	0
25. SECONDARY MINERAL (%)		25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)		26. OTHER MINERALS (%)	
27. REMARKS:		27. REMARKS:	
113" sticky blue clay 114" Hard sticky bluish-green clay 116-123" green + olive brown clay w/ black layers.			
SEGMENT TYPE	CANVY Silt	CANVY Silt	CANVY Silt

1. SAMPLE NUMBER	66-146-1 - CONTINUED	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (Day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3642 *		
10. SUBSAMPLE DEPTH IN CORE (m.)	116-117		
11. COLOR	Medium Brown (5Y 4/1)		
12. DUNE			
13. WET DENSITY (lb./ft ³)			
14. RIGIDITY (mm)			
15. MEDIUM PROSITY (%)			
16. MEDIUM PROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SITE ANALYSIS AND STATISTICAL MEASURES			
a. $\bar{x} \pm 2s$ (%)		00 _g	00 _g
b. $\bar{x} \pm 2s$ to $\bar{x} \pm 1s$ (%)		50 _g	50 _g
c. $\bar{x} \pm 1s$ to 0 _g (%)	8.37	40 _g	40 _g
d. 0 _g to 1 _g (%)	0.1	0.1	0.1
e. 1 _g to 2 _g (%)	0.1	0.1	0.1
f. 2 _g to 3 _g (%)	1	1	1
g. 3 _g to 4 _g (%)	2	2	2
h. 4 _g to 5 _g (%)	11	11	11
i. 5 _g to 6 _g (%)	51	40	40
j. $\bar{x} > 9$ (%)	35	38	38
20. SUBSAMPLE DRY WEIGHT (gm)	27.72		
21. SPECIFICITY (avg.)			
22. Plasticity Plasticity	High		
23. Shrinkage Shrinkage	0		
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS: * Mixed with Blue Gray (5Y 4/2) and Green (5Y 6/2).			

Sediment Type	Clayey Silt	Clayey Silt
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1. SAMPLE NUMBER	66-147-1	5. SAMPLER TYPE	Kullenberg
2. LATITUDE	44° 18'	6. WATER DEPTH (m.)	27.8
3. LONGITUDE	50° 01' W	7. CORE LENGTH (m.)	75
4. DATE (Day, month, year)	15 September 1969	8. CORE PENETRATION (m.)	P
9. LABORATORY NUMBERS	4083		
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2		
11. COLOR	Dark Gray		
12. DUNE			
13. WET DENSITY (lb./ft ³)			
14. RIGIDITY (mm)			
15. MEDIUM PROSITY (%)			
16. MEDIUM PROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SITE ANALYSIS AND STATISTICAL MEASURES			
a. $\bar{x} \pm 2s$ (%)		00 _g	00 _g
b. $\bar{x} \pm 2s$ to $\bar{x} \pm 1s$ (%)		50 _g	50 _g
c. $\bar{x} \pm 1s$ to 0 _g (%)	8.72	40 _g	40 _g
d. 0 _g to 1 _g (%)	0.1	0.1	0.1
e. 1 _g to 2 _g (%)	1	1	1
f. 2 _g to 3 _g (%)			
g. 3 _g to 4 _g (%)	11	10	11
h. 4 _g to 5 _g (%)	43	44	44
i. $\bar{x} > 9$ (%)	44	45	45
20. SUBSAMPLE DRY WEIGHT (gm)	20.23		
21. SPECIFICITY (avg.)			
22. Plasticity Plasticity	High		
23. Shrinkage Shrinkage	0		
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS: Items 11-26 determined in the lab.			

Sediment Type	Clayey Silt	Clayey Silt	Clayey Silt
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1. SAMPLE NUMBER	66-147-1 continued	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	4087 40-42	4088 60-62	4089* 70-72
10. SUBSAMPLE DEPTH IN CORE (m.)		Olive Gray 554/1	Olive Gray 554/1
11. COLOR			Dark Gray N3
12. ODR			
13. WET DENSITY (lb./ft ³)			
14. RIGIDNESS (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. -2, 12			
b. -2, 10 to 12, 14			
c. -12 to 0, 1, 1, 1			
d. 0, 10, 1, 1, 1			
e. 1, 2 to 2, 1			
f. 2, 10 to 2, 1			
g. 2, 10 to 2, 1			
h. 2, 10 to 2, 1			
i. 2, 10 to 2, 1			
j. 2, 10 to 2, 1			
20. SUBSAMPLE DRY WEIGHT (gm)	10.60	12.44	15.74
21. SPECIFIC GRAVITY			
22. WATER-RETENTION Plasticity	Med.	Med.	Med.
23. WATER-RETENTION Shell Content	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS	* Dark streaks Small (soft?) found at 75 inches.		
SEDIMENT TYPE	Clayey Silt	Clayey Silt	Silty Clay

1. SAMPLE NUMBER	66-148-1	5. SAMPLER TYPE	KULLENBERG
2. LATITUDE	44° 20' N	6. WATER DEPTH (m.)	175
3. LONGITUDE	68° 51' W	7. CORE LENGTH (m.)	119
4. DATE (day, month, year)	15 September 1959	8. CORE PENETRATION (m.)	144
9. LABORATORY NUMBERS		3750 *	3751 *
10. SUBSAMPLE DEPTH IN CORE (m.)		0-2	6-8
11. COLOR		Olive Gray (5Y 3/2)	Olive Gray (5Y 3/2)
12. ODR		FOUL	
13. WET DENSITY (lb./ft ³)			
14. RIGIDNESS (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. -2, 12			
b. -2, 10 to 12, 14			
c. -12 to 0, 1, 1, 1			
d. 0, 10, 1, 1, 1			
e. 1, 2 to 2, 1			
f. 2, 10 to 2, 1			
g. 2, 10 to 2, 1			
h. 2, 10 to 2, 1			
i. 2, 10 to 2, 1			
j. 2, 10 to 2, 1			
20. SUBSAMPLE DRY WEIGHT (gm)			
21. SPECIFIC GRAVITY			
22. WATER-RETENTION Plasticity			
23. WATER-RETENTION Shell Content			
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS	ITEMS 11-26 DETERMINED IN THE LAB. * The sample contained some streamers. A large piece (streamer) - 2 1/2" x 1 1/2" x 5/8" - was located at 80 inches.		
SEDIMENT TYPE	Clayey Silt	Clayey Silt	Clayey Silt

1. SAMPLE NUMBER	66-148-1, CONTINUED	5. SAMPLER TYPE	
2. LATITUDE		5. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3754 13-15 3755 15-18 3756 18-22 3757 22-24		
10. SUBSAMPLE DEPTH IN CORE (m.)			
11. COLOR	Dark Greenish Gray (56% GY)	Dark Greenish Gray (56% GY)	Dark Greenish Gray (56% GY)
12. DOOR			
13. WET DENSITY (kg./m ³)			
14. BULK DENSITY (kg./m ³)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MODES			
19.1. -10 to -20 (φ)	5	10 ₂	10 ₃
19.2. -20 to -40 (φ)	1	3	1
19.3. -40 to -60 (φ)	2	6.33	2
19.4. -60 to -80 (φ)	4	0.345	3
19.5. -80 to -100 (φ)	5	0.142	1
19.6. -100 to -120 (φ)	5	4	3
19.7. -120 to -140 (φ)	5	4	2
19.8. -140 to -160 (φ)	7	5	3
19.9. -160 to -180 (φ)	18	17	19
19.10. -180 to -200 (φ)	25	28	34
19.11. -200 to -220 (φ)	27	33	33
20. SUBSAMPLE DRY WEIGHT (gm)	25.48	32.51	32.91
21. SPECIFIC GRAVITY			20.12
22. PLASTICITY	High	High	High
23. SHrinkAGE-RETRACT INDEX (Shrinkage)	0	0	0
24. SHrinkAGE-RETRACT INDEX (Shrinkage)			
25. SECONDARY MINERALS (%)			
26. OTHER MINERALS (%)			
27. REMARKS: Continued. 0-8" gray mud with black layers + granules 8-15" olive gray clay 15-18" Hard blue gray			

SEDIMENT TYPE	Silt Mud	Clayey Silt	Clayey Silt
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1. SAMPLE NUMBER	66-148-1, CONTINUED	5. SAMPLER TYPE	
2. LATITUDE		5. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3758 26-28 3759 28-30 3760 30-40 3761 40-41		
10. SUBSAMPLE DEPTH IN CORE (m.)			
11. COLOR	Dark Greenish Gray (56% GY)	Dark Greenish Gray (56% GY)	Dark Greenish Gray (56% GY)
12. DOOR			
13. WET DENSITY (kg./m ³)			
14. BULK DENSITY (kg./m ³)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MODES			
19.1. -10 to -20 (φ)	5	10 ₂	10 ₃
19.2. -20 to -40 (φ)	1	3	1
19.3. -40 to -60 (φ)	2	6.33	2
19.4. -60 to -80 (φ)	4	0.345	3
19.5. -80 to -100 (φ)	5	0.142	1
19.6. -100 to -120 (φ)	5	4	3
19.7. -120 to -140 (φ)	5	4	2
19.8. -140 to -160 (φ)	7	5	3
19.9. -160 to -180 (φ)	18	17	19
19.10. -180 to -200 (φ)	25	28	34
19.11. -200 to -220 (φ)	27	33	33
20. SUBSAMPLE DRY WEIGHT (gm)	25.48	32.51	32.91
21. SPECIFIC GRAVITY			20.12
22. PLASTICITY	High	High	High
23. SHrinkAGE-RETRACT INDEX (Shrinkage)	0	0	0
24. SHrinkAGE-RETRACT INDEX (Shrinkage)			
25. SECONDARY MINERALS (%)			
26. OTHER MINERALS (%)			
27. REMARKS: Continued. 18"-28" Blue clay 28-40" Hard blue clay - pebbly at base 40"-41" Unconsolidated - pebbles			

SEDIMENT TYPE	Clayey Silt	Clayey Silt	Clayey Silt
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1. SHIP, E. NUMBER		66-148-1-1 CONTINUED		5. SAMPLER TYPE	
2. LATITUDE		3762		3764	
3. LONGITUDE		41-46		44-47	
4. DATE (Yr., month, year)		October 1966 (5-6 yr.)		Huron River Clay Huron River Clay Belt Sand (37%) Belt Sand (37%)	
9. LABORATORY NUMBERS		3762		3764	
10. SUBSAMPLING DEPTH IN CORE (cm.)		41-46		44-47	
11. COLOR		Greenish Gray (5-6 yr.)		Huron River Clay Huron River Clay Belt Sand (37%) Belt Sand (37%)	
12. ODR					
13. WET DENSITY (lb./ft. ³)					
14. SECURANT (%)					
15. MEDIUM PROBABILITY (%)					
16. MEDIUM PROBABILITY (%)					
17. WATER CONTENT (%)					
18. ORGANIC CARBON CONTENT (%)					
19. SIFT ANALYSIS AND STATISTICAL MASSSES					
20. SIFT ANALYSIS AND STATISTICAL MASSSES					
21. SPECIFIC GRAVITY		2.77		2.77	
22. MINERALOGY		High		High	
23. SUGGESTED MINERALOGY		High		High	
24. MINERALOGY		High		High	
25. SECONDARY MINERAL (%)		High		High	
26. OTHER MINERAL (%)		High		High	
27. REMARKS:		41-46" Greenish gray w/ hard sticky zones 44-48" soft olive gray w/ black layers 48-72" soft green w/ many yellowish green, hard mud balls.			

451. 44-46" Green,ish gray w/hard sticky zones
46-48" Soft olive gray w/black layers.
48-50" Light green w/marv yellowish green, hard mud balls.

1. SAMPLE NUMBER	2. LATITUDE	3. LONGITUDE	4. DATE (Day, month, year)	5. SAMPLER TYPE
66-749-1, CONTINUED				
6. WATER DEPTH (m.)	7. CORE LENGTH (m.)	8. CORE PENETRATION (m.)		
9. LABELED CORE NUMBERS				
10. SUBSAMPLE DEPTH IN CORE (m.)				
11. COLOR				
12. ODP				
13. WET DENSITY (lb./ft. ³)				
14. RIGIDITY (psi)				
15. MACHIN PROSISITY (%)				
16. MINIMUM PROSISITY (%)				
17. WATER CONTENT (%)				
18. ORGANIC CARBON CONTENT (%)				
19. SIZE ANALYSIS AND STATISTICAL MEASURES				
20. SUBSAMPLE DRY WEIGHT (gm)				
21. SPECIFIC (comp.)				
22. REMARKS (cont.)				
23. REMARKS (cont.)				
24. DON HART MINERAL (%)				
25. SECONDARY MINERAL (%)				
26. OTHER MINERALS (%)				

1. 3766
 2. 69-92
 3. MEDIUM BLANK
 4. 144
 5. 3767
 6. 92-75
 7. MEDIUM BLANK
 8. 144
 9. 3768
 10. 94-96
 11. MEDIUM BLANK
 12. 144
 13. 3769
 14. 95-107
 15. MEDIUM BLANK
 16. 144

1. 3766
 2. 69-92
 3. MEDIUM BLANK
 4. 144
 5. 3767
 6. 92-75
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 15. MEDIUM BLANK
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1. 3766
 2. 69-92
 3. MEDIUM BLANK
 4. 144
 5. 3767
 6. 92-75
 7. MEDIUM BLANK
 8. 1

27. REMARKS: *THE SAMPLE WAS COMPOSED ENTIRELY OF A BLACK LAYER, 72-119" GRAY W/ THICK BLACK LAYERS BEGINNING AT 92".*

1. SAMPLER NUMBER	66-48-1 : CONTINUED	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (Day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3770		
10. SUBSAMPLE DEPTH IN CORE (m.)	117-119		
11. COLOR	Dark Grey N3		
12. ODR			
13. WET DENSITY (kg./cc.)			
14. RIGIDNESS (mm)			
15. MAXIMUM PROSPECT (%)			
16. MINIMUM PROSPECT (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SITE ANALYSIS AND STATISTICAL MEASURES			
20. SUBSAMPLE DRY WEIGHT (mg)			
21. SPECIFIC T ₁ (avg.)			
22. mineralogical plasticity	Med.		
23. mineralogical texture	Shall Co.		
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:			

[illegible]

7. REMARKS: ITEMS 11-26 DETERMINED IN THE LAB.
* THE SAMPLE CONTAINED NUMEROUS BLACK STREAKS.
0-6" dark layers.

1. SAMPLE NUMBER	66-142-1	5. SAMPLER TYPE	CONTINUED
2. LATITUDE	44	6. WATER DEPTH (m)	
3. LONGITUDE	68 50 31 W	7. CORE LENGTH (m)	23.2
4. DATE (DD, MONTH, YEAR)	15 SEPTEMBER 1959	8. CORE PENETRATION (m)	182
9. LABORATORY NUMBERS	3739		
10. SUBSAMPLE DEPTH IN CORE (m)	77-79		
11. COLOR	Pure Wisconsin Brown (10YR 4/2)		
12. OTHER			
13. WET DENSITY (lb./ft. ³)			
14. RIGIDNESS (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
20. SUBSAMPLE DRY WEIGHT (g)	1751	21. SPECIFIC GRAVITY	2.310
22. SPERMATOPHYTES Plasticity	High		
23. SPERMATOPHYTES Shell Ca.	0		
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:	Continued.		

Shell scattered throughout core.

SEDIMENT TYPE	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT
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1. SAMPLE NUMBER	66-150-1	5. SAMPLER TYPE	VALLEYBAC
2. LATITUDE	44	6. WATER DEPTH (m)	23.2
3. LONGITUDE	68 50 31 W	7. CORE LENGTH (m)	126
4. DATE (DD, MONTH, YEAR)	15 SEPTEMBER 1959	8. CORE PENETRATION (m)	182
9. LABORATORY NUMBERS	3559		
10. SUBSAMPLE DEPTH IN CORE (m)	0-2		
11. COLOR	DRABISH OLIVE GREEN (5GY 3/2)		
12. OTHER			
13. WET DENSITY (lb./ft. ³)			
14. RIGIDNESS (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
20. SUBSAMPLE DRY WEIGHT (g)	2024	21. SPECIFIC GRAVITY	2.424
22. SPERMATOPHYTES Plasticity	High		
23. SPERMATOPHYTES Shell Ca.	0		
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:	ITEMS 11-26 DETERMINED IN THE LAB.		

THE CORE CONTAINED DARK STREAKS IN THE FIRST SIX INCHES. 68-150-DARK LAYERS.

SEDIMENT TYPE	SILT CLAY	SILT CLAY	SILT CLAY
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1. SAMPLE NUMBER	66-150-1 : CONTINUED	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3563 92-88	104-106	3566 124-126
10. SUBSAMPLE DEPTH IN CORE (m.)			
11. COLOR	GREENISH BLACK (5 Y 2/1)	GREENISH BLACK (5 Y 4/1)	DAWK GREENISH GRAY (5 Y 4/1)
12. ODR			
13. WET DENSITY (lb./ft. ³)			
14. RIGIDNESS (mm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2, (s)	0.0	0.0	0.0
b. 2 ₅₀ to 4 ₅₀ (s)	54	54	56
c. 4 ₅₀ to 6 ₅₀ (s)	M ₅₀ 895	M ₅₀ 893	M ₅₀
d. 6 ₅₀ to 1 ₅₀ (s)	1 01.716	1 01.695	1 01.5
e. 1 ₅₀ to 2 ₅₀ (s)	0.0	0.0	0.0
f. 2 ₅₀ to 3 ₅₀ (s)			
g. 3 ₅₀ to 4 ₅₀ (s)			
h. 4 ₅₀ to 6 ₅₀ (s)	10	9	11
i. 6 ₅₀ to 8 ₅₀ (s)	40	38	35
j. 8 ₅₀ (s)	54	52	53
20. SUBSAMPLE DRY WEIGHT (gm)	1974	1958	1799
21. SPECIFICITY (gpc.)			
22. MINERALS (gpc.)	High	High	High
23. MINERAL-TEXTURE (from Shell Cn.)	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS	cores contained a few scattered shell fragments. 92-106 Dark, sticky		
SEDIMENT TYPE	Silty Clay	Silty Clay	Silty Clay

1. SAMPLE NUMBER	66-151-1	5. SAMPLER TYPE	KILLEWATER
2. LATITUDE	44° 29' 51" N	6. WATER DEPTH (m.)	163
3. LONGITUDE	68° 53' 15" W	7. CORE LENGTH (m.)	
4. DATE (day, month, year)	15 September 1959	8. CORE PENETRATION (m.)	132
9. LABORATORY NUMBERS	3793	3794	3795
10. SUBSAMPLE DEPTH IN CORE (m.)			
11. COLOR	Dark Gray (5 Y 3/2)	Dark Gray (5 Y 3/2)	Dark Gray (5 Y 3/2)
12. ODR			
13. WET DENSITY (lb./ft. ³)			
14. RIGIDNESS (mm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2, (s)	0.0	0.0	0.0
b. 2 ₅₀ to 4 ₅₀ (s)	54	54	54
c. 4 ₅₀ to 6 ₅₀ (s)	M ₅₀ 846	M ₅₀ 892	M ₅₀ 566
d. 6 ₅₀ to 1 ₅₀ (s)	0.1 688	0.1 600	0.1 342
e. 1 ₅₀ to 2 ₅₀ (s)	7.2	6	6
f. 2 ₅₀ to 3 ₅₀ (s)	1	1	1
g. 3 ₅₀ to 4 ₅₀ (s)	1	1	1
h. 4 ₅₀ to 6 ₅₀ (s)	11	8	6
i. 6 ₅₀ to 8 ₅₀ (s)	45	36	24
j. 8 ₅₀ (s)	42	38	25
20. SUBSAMPLE DRY WEIGHT (gm)	1916	2315	1904
21. SPECIFICITY (gpc.)			
22. MINERALS (gpc.)	High	High	High
23. MINERAL-TEXTURE (from Shell Cn.)	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS	cores 11-26 determined in the lab. 0-24" of core intact - rest missing or disturbed - soaked. 8" graded color change 0-6" & 14-21" Black layers.		
SEDIMENT TYPE	Clayey Silt	Clayey Silt	Silty Mud

1. SAMPLE NUMBER	66-151-1 : CONTINUED	5. SAMPLER TYPE
2. ALT. (±)		3. WATER (cc/ft ³)
3. LENGTH		7. CORE LENGTH (m)
4. DATE (1/22, MON, 2008)		8. CORE PENETRATION (m)
9. LABORATORY NUMBERS	3997	
10. SUBSAMPLE DEPTH IN CORE (m)	21-23	
11. CORES	Run Core (1st 40) W/ MASON & SON Core (50-51)	
12. 2008		
13. WET DENSITY (lb./ft ³)		
14. FIDUCIAL (cm)		
15. MAXIMUM POROSITY (%)		
16. MINIMUM POROSITY (%)		
17. WATER CONTENT (%)		
18. ORGANIC CARBON CONTENT (%)		
19. SITE NAME/ID AND STATISTICAL MEASURES		
20. SUBSAMPLE DRY WEIGHT (gm)		
21. SPECIFIC SURF.		
22. mineralogical <i>Vegetation</i>		
23. SHEET/STRATIGRAPHIC UNIT		
24. DOMINANT MINERAL (1)		
25. SECONDARY MINERAL (1)		
26. OTHER MINERALS (1)		
REMARKS:		

14" Hard lumpy clay
21" Hard blue clay

SEDIMENT TYPE
Silty Mud

[illegible]

27 REMARKS: TWO ARE 11-76 DETERMINED IN THE LAB.

* CONTAINED BLACK STREAKS (0-14")

~~XX~~ CONTAINED LIMONITIC STAINS

** CONTAINED LIMONITIC STAINS
"4c" " Also clay and Hard, dry brown clay

SEDIMENT	TYPE	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT
19-10 blue clay				

1. SAMPLE NUMBER	66-152-1 CONTINUED	5. SAMPLER TYPE	
2. LATITUDE		5. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (mo., year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3550 44-46 62-64 93-95 122-124		3553
10. SUBSAMPLE DEPTH IN CORE (m.)	GRAYISH OLIVE GREEN 58Y 3/2	GRAYISH OLIVE GREEN 58Y 3/2	GRAYISH OLIVE GREEN 58Y 3/2
11. COLOR			
12. DGR			
13. NET DENSITY (N./H ³)			
14. RESISTANCE (m)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
20. d_{10} to d_{20} (%)			
21. d_{10} to d_{20} (%)			
22. d_{10} to d_{20} (%)			
23. d_{10} to d_{20} (%)			
24. d_{10} to d_{20} (%)			
25. d_{10} to d_{20} (%)			
26. d_{10} to d_{20} (%)			
27. REMARKS:			

1. SAMPLE NUMBER	66-153-1	5. SAMPLER TYPE	KULLENBERG
2. LATITUDE	44° 22' 55" N	5. WATER DEPTH (m.)	15.0
3. LONGITUDE	68° 55' 01" W	7. CORE LENGTH (m.)	125
4. DATE (mo., year)	15 September 1959	8. CORE PENETRATION (m.)	132
9. LABORATORY NUMBERS	3500		3503
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2	22-24	48-50
11. COLOR	OLIVE GRAY (5Y 4/2)	OLIVE GRAY (5Y 4/2)	OLIVE GRAY (5Y 4/2)
12. DGR			
13. NET DENSITY (N./H ³)			
14. RESISTANCE (m)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
20. d_{10} to d_{20} (%)			
21. d_{10} to d_{20} (%)			
22. d_{10} to d_{20} (%)			
23. d_{10} to d_{20} (%)			
24. d_{10} to d_{20} (%)			
25. d_{10} to d_{20} (%)			
26. d_{10} to d_{20} (%)			
27. REMARKS:			

1. SAMPLE NUMBER	66-153-1 - CONTINUED	5. SAMPLER TYPE	
2. LATITUDE	44° 06' 16" N	5. WATER DEPTH (m.)	289
3. LONGITUDE	69° 02' 10" W	7. CORE LENGTH (m.)	125
4. DATE (day, month, year)	16 SEPTEMBER 1969	8. CORE PENETRATION (m.)	132
9. LABORATORY NUMBERS	3945		
10. SUBSAMPLE DEPTH IN CORE (m.)	123-125		
11. CORE	Green Clay (50% 1/2)		
12. DOOR			
13. NET DENSITY (N ₁ /H ₁ ²)			
14. RIGIDITY (m)			
15. MAXIMUM PROSITY (%)			
16. MINIMUM PROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2 (s)	10 ₁	10 ₂	10 ₃
b. > 2 to < 10 (s)	34 ₁	34 ₂	34 ₃
c. > 10 to < 60 (s)	ME. 900	ME.	ME.
d. > 60 to < 100 (s)	10 ₁	10 ₂	10 ₃
e. > 100 to < 200 (s)	10 ₁	10 ₂	10 ₃
f. > 200 to < 400 (s)	10 ₁	10 ₂	10 ₃
g. > 400 to < 600 (s)	10 ₁	10 ₂	10 ₃
h. > 600 to < 800 (s)	10 ₁	10 ₂	10 ₃
i. > 800 to < 1000 (s)	10 ₁	10 ₂	10 ₃
20. SUBSAMPLE DRY WEIGHT (m)	22.84	14.84	
21. SPHERICITY (s)			
22. PLASTICITY	Plasticity	Plasticity	Plasticity
23. SHrinkage (s)	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:			

1. SAMPLE NUMBER	66-154-1	5. SAMPLER TYPE	KULLENBERG
2. LATITUDE	44° 06' 16" N	5. WATER DEPTH (m.)	289
3. LONGITUDE	69° 02' 10" W	7. CORE LENGTH (m.)	125
4. DATE (day, month, year)	16 SEPTEMBER 1969	8. CORE PENETRATION (m.)	132
9. LABORATORY NUMBERS	3779		
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2		
11. CORE	Green Clay (50% 1/2)		
12. DOOR			
13. NET DENSITY (N ₁ /H ₁ ²)			
14. RIGIDITY (m)			
15. MAXIMUM PROSITY (%)			
16. MINIMUM PROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2 (s)	10 ₁	10 ₂	10 ₃
b. > 2 to < 10 (s)	34 ₁	34 ₂	34 ₃
c. > 10 to < 60 (s)	ME. 543	ME. 693	ME. 742
d. > 60 to < 100 (s)	10 ₁	10 ₂	10 ₃
e. > 100 to < 200 (s)	10 ₁	10 ₂	10 ₃
f. > 200 to < 400 (s)	10 ₁	10 ₂	10 ₃
g. > 400 to < 600 (s)	10 ₁	10 ₂	10 ₃
h. > 600 to < 800 (s)	10 ₁	10 ₂	10 ₃
i. > 800 to < 1000 (s)	10 ₁	10 ₂	10 ₃
20. SUBSAMPLE DRY WEIGHT (m)	24.29	24.07	23.22
21. SPHERICITY (s)			
22. PLASTICITY	Plasticity	Plasticity	Plasticity
23. SHrinkage (s)	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:			

66-154-1 CONTINUED		5. SAMPLER TYPE	
1. SAMPLE NO.	66-154-1	5. WATER DEPTH (ft.)	
2. LATITUDE		6. CORE LENGTH (in.)	
3. LONGITUDE		7. CORE PENETRATION (in.)	
4. DATE (Day, month, year)		8. CORE PENETRATION (in.)	
9. LABORATORY NUMBERS		9. SURFACE DEPTH IN CORE (in.)	
10. SURFACE DEPTH IN CORE (in.)	35-57	10. SURFACE DEPTH IN CORE (in.)	35-57
11. COLOR	Greenish Blue Mottled Green (50% Bk)	11. COLOR	Dark Greenish Blue (50% Bk) Dark Greenish Blue (50% Bk) Dark Greenish Blue (50% Bk)
12. GSSR		12. GSSR	
13. NET DENSITY (lb./ft ³)		13. NET DENSITY (lb./ft ³)	
14. RHOIRADS (cm)		14. RHOIRADS (cm)	
15. MAXIMUM PROBABILITY (%)		15. MAXIMUM PROBABILITY (%)	
16. MINIMUM PROBABILITY (%)		16. MINIMUM PROBABILITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIEF ANALYSIS AND STATISTICAL MEASURES			
19a. SIEF ANALYSIS		19b. SIEF ANALYSIS	
19c. SIEF ANALYSIS		19d. SIEF ANALYSIS	
19e. SIEF ANALYSIS		19f. SIEF ANALYSIS	
19g. SIEF ANALYSIS		19h. SIEF ANALYSIS	
19i. SIEF ANALYSIS		19j. SIEF ANALYSIS	
19k. SIEF ANALYSIS		19l. SIEF ANALYSIS	
19m. SIEF ANALYSIS		19n. SIEF ANALYSIS	
19o. SIEF ANALYSIS		19p. SIEF ANALYSIS	
19q. SIEF ANALYSIS		19r. SIEF ANALYSIS	
19s. SIEF ANALYSIS		19t. SIEF ANALYSIS	
19u. SIEF ANALYSIS		19v. SIEF ANALYSIS	
19w. SIEF ANALYSIS		19x. SIEF ANALYSIS	
19y. SIEF ANALYSIS		19z. SIEF ANALYSIS	
20. SURFACIAL DRY WEIGHT (mg)	2666	20. SURFACIAL DRY WEIGHT (mg)	2666
21. SPECIFIC GRAVITY	1.02	21. SPECIFIC GRAVITY	1.02
22. PLASTICITY INDEX	10	22. PLASTICITY INDEX	10
23. LIQUID LIMIT (%)	25	23. LIQUID LIMIT (%)	25
24. SHREYER INDEX	41	24. SHREYER INDEX	41
25. SECONDARY MINERAL (%)		25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)		26. OTHER MINERALS (%)	
27. REMARKS		27. REMARKS	
28. REMARKS		28. REMARKS	
29. REMARKS		29. REMARKS	
30. REMARKS		30. REMARKS	
31. REMARKS		31. REMARKS	
32. REMARKS		32. REMARKS	
33. REMARKS		33. REMARKS	
34. REMARKS		34. REMARKS	
35. REMARKS		35. REMARKS	
36. REMARKS		36. REMARKS	
37. REMARKS		37. REMARKS	
38. REMARKS		38. REMARKS	
39. REMARKS		39. REMARKS	
40. REMARKS		40. REMARKS	
41. REMARKS		41. REMARKS	
42. REMARKS		42. REMARKS	
43. REMARKS		43. REMARKS	
44. REMARKS		44. REMARKS	
45. REMARKS		45. REMARKS	
46. REMARKS		46. REMARKS	
47. REMARKS		47. REMARKS	
48. REMARKS		48. REMARKS	
49. REMARKS		49. REMARKS	
50. REMARKS		50. REMARKS	
51. REMARKS		51. REMARKS	
52. REMARKS		52. REMARKS	
53. REMARKS		53. REMARKS	
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61. REMARKS		61. REMARKS	
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64. REMARKS		64. REMARKS	
65. REMARKS		65. REMARKS	
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67. REMARKS		67. REMARKS	
68. REMARKS		68. REMARKS	
69. REMARKS		69. REMARKS	
70. REMARKS		70. REMARKS	
71. REMARKS		71. REMARKS	
72. REMARKS		72. REMARKS	
73. REMARKS		73. REMARKS	
74. REMARKS		74. REMARKS	
75. REMARKS		75. REMARKS	
76. REMARKS		76. REMARKS	
77. REMARKS		77. REMARKS	
78. REMARKS		78. REMARKS	
79. REMARKS		79. REMARKS	
80. REMARKS		80. REMARKS	
81. REMARKS		81. REMARKS	
82. REMARKS		82. REMARKS	
83. REMARKS		83. REM	

[illegible]

1. SAMPLE NUMBER	66 - 154 - <i>Acquered</i>	5. SAMPLER TYPE	
2. LATITUDE		5. WATER DEPTH (m)	
3. LONGITUDE		7. CORE LENGTH (m)	
4. DATE (DD, MONTH, YEAR)		8. CORE PENETRATION (m)	
9. LABORATORY NUMBERS	3991		
10. SUBSAMPLE DEPTH IN CORE (m)	116-118		
11. COLOR	Mudstone Gray N 5		
12. ODRS			
13. NET DENSITY (lb./ft ³)			
14. RIGIDITY (cm)			
15. MAXIMUM POROSITY (%)			
16. MEDIUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
20. SUBSAMPLE DRY WEIGHT (gm)			
21. SPECIFICITY (gms.)			
22. MINERALOGY Plasticity	H ₂ O		
23. MINERALOGY Shell	1%		
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:	<p>Notes: 11-26 determined in the lab. The sample is a mudstone with one inch thick soft spots at 116 and 118 inches. Between 97 and 107 inches the core was composed of a soft, unconsolidated mud. Dark streaks in the first 10 inches and the bottom 8 inches. A few shells were scattered throughout the core.</p>		
SEGMENT TYPE	Clayey Silt	Clayey Silt	

1. SAMPLE NUMBER	66-156-1	5. SAMPLER TYPE	Kullenberg
2. LATITUDE	44	5. WATER DEPTH (m)	35.8
3. LONGITUDE	57	7. CORE LENGTH (m)	121
4. DATE (DD, MONTH, YEAR)	16 September 1959	8. CORE PENETRATION (m)	132
9. LABORATORY NUMBERS	3998		
10. SUBSAMPLE DEPTH IN CORE (m)	0-3		
11. COLOR	Olive Gray 5Y3/2		
12. ODRS			
13. NET DENSITY (lb./ft ³)			
14. RIGIDITY (cm)			
15. MAXIMUM POROSITY (%)			
16. MEDIUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
20. SUBSAMPLE DRY WEIGHT (gm)			
21. SPECIFICITY (gms.)			
22. MINERALOGY Plasticity	H ₂ O		
23. MINERALOGY Shell	0		
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:	<p>Notes: 11-26 determined in the lab. The sample is a mudstone with one inch thick soft spots at 116 and 118 inches. Between 97 and 107 inches the core was composed of a soft, unconsolidated mud. Dark streaks in the first 10 inches and the bottom 8 inches. A few shells were scattered throughout the core.</p>		
SEGMENT TYPE	Clayey Silt	Clayey Silt	Clayey Silt

1. SAMPLE NUMBER	5. SAMPLER TYPE
66-156-1 continued	
2. LATH TUBE	
3. LENGTH	
4. DATE (Day, month, year)	
6. WATER DEPTH (m.)	
7. CORE LENGTH (m.)	
8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	
10. SUBSAMPLE DEPTH IN CORE (m.)	
11. COLOR	
12. ODR	
13. WET DENSITY (lb./ft ³)	
14. FRICTION (mm)	
15. METHUEN PROSITY (%)	
16. MINIMUM PROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. ϕ_{10} (%)	
b. ϕ_{20} to ϕ_{40} (%)	
c. ϕ_{40} to ϕ_{60} (%)	
d. ϕ_{60} to ϕ_{80} (%)	
e. ϕ_{80} to ϕ_{100} (%)	
f. ϕ_{20} to ϕ_{40} (%)	
g. ϕ_{40} to ϕ_{60} (%)	
h. ϕ_{60} to ϕ_{80} (%)	
i. ϕ_{80} to ϕ_{100} (%)	
j. ϕ_{100} (%)	
20. SUBSAMPLE DRY WEIGHT (mg)	
21. SPECIFIC (avg.)	
22. PLASTICITY INDEX	
23. LIQUID LIMIT (mm)	
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERALS (%)	
26. OTHER MINERALS (%)	
27. REMARKS: continued	
* Dark streaks	

Sediment Type	Silty Clay	Clayey Silt	Silty Clay	Clayey Silt

1. SAMPLE NUMBER	5. SAMPLER TYPE	6. WATER DEPTH (m.)	7. CORE LENGTH (in.)	8. CORE PENETRATION (m.)
1. SAMPLE NUMBER	5. SAMPLER TYPE	6. WATER DEPTH (m.)	7. CORE LENGTH (in.)	8. CORE PENETRATION (m.)
2. LATITUDE				
3. LONGITUDE				
4. DATE (Day, month, year)				
9. LABORATORY NUMBERS				
10. SUBSAMPLE DEPTH IN CORE (m.)				
11. COLOR				
12. ODOR				
13. NET DENSITY (lb./ft. ³)				
14. RIGIDITY (mm)				
15. MAXIMUM FRICTION (S)				
16. MINIMUM FRICTION (S)				
17. WATER CONTENT (S)				
18. ORGANIC CARBON CONTENT (S)				
19. SIZE ANALYSIS AND STATISTICAL MEASURES				
a. < -2 ϕ (S)	10 _a	50 _a	10 _b	50 _b
b. -2 ϕ to -1 (S)	50 _c	50 _c	50 _c	50 _c
c. -1 ϕ to 0 ϕ (S)	ME _d 8.90	ME _d 8.88	ME _d 8.87	ME _d 8.87
d. 0 ϕ to 1 ϕ (S)	01 _e 7.00	01 _e 7.15	01 _e 6.95	01 _e 6.95
e. 1 ϕ to 2 ϕ (S)	03 _f	03 _f	03 _f	03 _f
f. 2 ϕ to 3 ϕ (S)				
g. 3 ϕ to 4 ϕ (S)				
h. 4 ϕ to 5 ϕ (S)	14	11	15	
i. 5 ϕ to 6 ϕ (S)	37	40	36	
j. 6 ϕ to 7 ϕ (S)	48	48	48	
k. > 7 ϕ (S)				
20. SUBSAMPLE DRY WEIGHT (gm)	11.68	22.09	15.12	
21. SPECIFIC GRAVITY				
22. MINERALOGY Plasticity	H-gb	H-gb	H-gb	
23. MINERALOGY MINERALOGY Shell Co.	0	0	0	
24. DOMINANT MINERAL (S)				
25. SECONDARY MINERALS (S)				
26. OTHER MINERALS (S)				
REMARKS: continued				

Sediment Type	Clayey Silt	Clayey Silt	Clayey Silt
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1. SAMPLE NUMBER	66-157-1	5. SAMPLER TYPE	KALLEBERG
2. LATITUDE	44 10	6. WATER DEPTH (m.)	35.0
3. LONGITUDE	69 00 00 W	7. CORE LENGTH (m.)	127
8. DATE (day, month, year)	16 SEPTEMBER 1959	8. CORE PRESERVATION (m.)	132
9. LABORATORY NUMBERS	3935 *	9.3937	3938
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2	0-2-24	46-48
11. COLOR	Dark Gray (5Y 4/2)	Dark Gray (5Y 4/2)	Dark Gray (5Y 4/2)
12. OTHER			
13. WET DENSITY (lb./ft ³)			
14. RIGIDITY (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. -2 ₅ (s)	0%	0%	0%
b. -2 ₅ to -1 ₅ (s)	5%	5%	5%
c. -1 ₅ to 0 ₅ (s)	Mc. 8.65	Mc. 8.69	Mc. 8.62
d. 0 ₅ to 1 ₅ (s)	2	01, 6.80	2
e. 1 ₅ to 2 ₅ (s)	0%	01, 6.74	01, 6.75
f. 2 ₅ to 3 ₅ (s)	0%	0%	0%
g. 3 ₅ to 4 ₅ (s)			
h. 4 ₅ to 6 ₅ (s)	15	16	16
i. 6 ₅ to 8 ₅ (s)	38	36	44
j. 8 ₅ (s)	45	46	43
20. SUBSAMPLE DRY WEIGHT (cm)	22.34	17.62	22.81
21. SPHERICITY (cm)			
22. percentages Plasticity	High	High	High
23. percentages Shell Ca.	0	<1%	<1%
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:	ITEMS 11-26 DETERMINED IN THE LAB		
	* THE SAMPLE CONTAINED BLACK STREAKS. SHELL SCATTERED THROUGHOUT.		
SEDIMENT TYPE	CANYON SILT	CANYON SILT	CANYON SILT

1. SAMPLE NUMBER	66-157-1	5. SAMPLER TYPE	CONTINUED
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
8. DATE (day, month, year)		8. CORE PRESERVATION (m.)	
9. LABORATORY NUMBERS	3939	94-96	Dark Gray (5Y 4/2)
10. SUBSAMPLE DEPTH IN CORE (m.)		Dark Gray (5Y 4/2)	Dark Gray (5Y 4/2)
11. COLOR			
12. OTHER			
13. WET DENSITY (lb./ft ³)			
14. RIGIDITY (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. -2 ₅ (s)	0%	0%	0%
b. -2 ₅ to -1 ₅ (s)	5%	5%	5%
c. -1 ₅ to 0 ₅ (s)	Mc. 8.23	Mc. 8.65	Mc. 8.65
d. 0 ₅ to 1 ₅ (s)	1	01, 6.03	1
e. 1 ₅ to 2 ₅ (s)	0%	0%	0%
f. 2 ₅ to 3 ₅ (s)			
g. 3 ₅ to 4 ₅ (s)			
h. 4 ₅ to 6 ₅ (s)	13	17	
i. 6 ₅ to 8 ₅ (s)	44	37	
j. 8 ₅ (s)	46	45	
20. SUBSAMPLE DRY WEIGHT (cm)	22.89	23.15	
21. SPHERICITY (cm)			
22. percentages Plasticity	High	High	
23. percentages Shell Ca.	0	0	
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:	0-12" Black bands 115-127" Very soft		
SEDIMENT TYPE	CANYON SILT	CANYON SILT	CANYON SILT

1. SAMPLE NUMBER	66-159-1	5. SAMPLER TYPE	KULLENBERG
2. LATITUDE	44° 08' 50" N	5. WATER DEPTH (m.)	42.5
3. LONGITUDE	69° 00' 10" W	7. CORE LENGTH (m.)	126
4. DATE (day, month, year)	16 SEPTEMBER 1959	8. CORE PENETRATION (m.)	132
9. LABORATORY NUMBERS	3673	9. LABORATORY NUMBERS	3674
10. SUBSAMPLE DEPTH IN CORE (m.)	3672*	10. SUBSAMPLE DEPTH IN CORE (m.)	3675*
11. COLOR	GRASSH ALIVE GREEN (5GY 3/2)	11. COLOR	GRASSH ALIVE GREEN (5GY 3/2)
12. ODR		12. ODR	
13. WET DENSITY (lb./ft ³)		13. WET DENSITY (lb./ft ³)	
14. RIGIDITY (cm)		14. RIGIDITY (cm)	
15. MAXIMUM POROSITY (%)		15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2 ₅ (%)	OD ₅	b. < 2 ₅ (%)	OD ₅
b. < 2 ₅ to < 2 ₅ (%)	SD ₅	b. < 2 ₅ to < 2 ₅ (%)	SD ₅
c. < 2 ₅ to 0 ₁ (%)	MD ₅	c. < 2 ₅ to 0 ₁ (%)	MD ₅
d. 0 ₁ to 1 ₀ (%)	1 01.616	d. 0 ₁ to 1 ₀ (%)	1 01.610
e. 1 ₀ to 2 ₅ (%)	2 01.617	e. 1 ₀ to 2 ₅ (%)	2 01.590
f. 2 ₅ to 3 ₀ (%)		f. 2 ₅ to 3 ₀ (%)	
g. 3 ₀ to 4 ₀ (%)		g. 3 ₀ to 4 ₀ (%)	
h. 4 ₀ to 6 ₀ (%)	23	h. 4 ₀ to 6 ₀ (%)	22
i. 6 ₀ to 8 ₀ (%)	31	i. 6 ₀ to 8 ₀ (%)	34
j. 8 ₀ (%)	45	j. 8 ₀ (%)	42
20. SUBSAMPLE DRY WEIGHT (gm)	22.29	20. SUBSAMPLE DRY WEIGHT (gm)	20.37
21. SPECIFIC (sw-1)		21. SPECIFIC (sw-1)	
22. PLASTICITY	High	22. PLASTICITY	High
23. SHREDDING-TESTING-SHELL CM.	< 1/2	23. SHREDDING-TESTING-SHELL CM.	0
24. DOMINANT MINERAL (%)		24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)		25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)		26. OTHER MINERALS (%)	
27. REMARKS: ITEMS 11-26 DETERMINED IN THE LAB			
* THE SAMPLE OBTAINED DARK STEAKS. SPILL ACCIDENTALLY THROUGHOUT CORO. OF BACK TUBES			
SEDIMENT TYPE			
CLAYEY SILT	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT

1. SAMPLE NUMBER	66-159-1	5. SAMPLER TYPE	
2. LATITUDE		5. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3676	9. LABORATORY NUMBERS	3677
10. SUBSAMPLE DEPTH IN CORE (m.)	3676	10. SUBSAMPLE DEPTH IN CORE (m.)	3677
11. COLOR	GRASSH ALIVE GREEN (5GY 3/2)	11. COLOR	GRASSH ALIVE GREEN (5GY 3/2)
12. ODR		12. ODR	
13. WET DENSITY (lb./ft ³)		13. WET DENSITY (lb./ft ³)	
14. RIGIDITY (cm)		14. RIGIDITY (cm)	
15. MAXIMUM POROSITY (%)		15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2 ₅ (%)	OD ₅	b. < 2 ₅ (%)	OD ₅
b. < 2 ₅ to < 2 ₅ (%)	SD ₅	b. < 2 ₅ to < 2 ₅ (%)	SD ₅
c. < 2 ₅ to 0 ₁ (%)	MD ₅	c. < 2 ₅ to 0 ₁ (%)	MD ₅
d. 0 ₁ to 1 ₀ (%)	1 01.592	d. 0 ₁ to 1 ₀ (%)	1 01.592
e. 1 ₀ to 2 ₅ (%)	2 01.592	e. 1 ₀ to 2 ₅ (%)	2 01.592
f. 2 ₅ to 3 ₀ (%)		f. 2 ₅ to 3 ₀ (%)	
g. 3 ₀ to 4 ₀ (%)		g. 3 ₀ to 4 ₀ (%)	
h. 4 ₀ to 6 ₀ (%)	23	h. 4 ₀ to 6 ₀ (%)	23
i. 6 ₀ to 8 ₀ (%)	33	i. 6 ₀ to 8 ₀ (%)	33
j. 8 ₀ (%)	42	j. 8 ₀ (%)	42
20. SUBSAMPLE DRY WEIGHT (gm)	29.65	20. SUBSAMPLE DRY WEIGHT (gm)	29.65
21. SPECIFIC (sw-1)		21. SPECIFIC (sw-1)	
22. PLASTICITY	High	22. PLASTICITY	High
23. SHREDDING-TESTING-SHELL CM.	0	23. SHREDDING-TESTING-SHELL CM.	< 1/2
24. DOMINANT MINERAL (%)		24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)		25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)		26. OTHER MINERALS (%)	
27. REMARKS: color changes at 19" & 10"			
SEDIMENT TYPE			
CLAYEY SILT	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT

1. SAMPLE NUMBER	66-159-1	5. SAMPLER TYPE	KELLEHER					
2. LATITUDE	44° 08' N	6. WATER DEPTH (m.)	22.5					
3. LONGITUDE	68° 55' W	7. CORE LENGTH (m.)	90					
4. DATE (day, month, year)	16 SEPTEMBER 1959	8. CORE PENETRATION (m.)	120					
9. LABORATORY NUMBERS	3927	3928	3929					
10. SUBSAMPLE DEPTH IN CORE (m.)	0-5	5-8	8-27					
11. COLOR	MEDIUM BROWN (5B 4/1)	DRY GRAY (5Y 4/1)	DRY GRAY (5Y 4/1)					
12. MOOR								
13. WET DENSITY (lb./ft. ³)								
14. RIGIDITY (mm)								
15. MAXIMUM POROSITY (%)								
16. MINIMUM POROSITY (%)								
17. WATER CONTENT (%)								
18. ORGANIC CARBON CONTENT (%)								
19. SITE ANALYSIS AND STATISTICAL MEASURES								
19.1. $\bar{x} \pm 2s$ (s)	13	103.360	29	103.275	22	103.287	25	103.372
19.2. $\bar{x} \pm 2s$ (s)	7	31.7087	12	31.7050	9	31.7051	6	31.7048
19.3. $\bar{x} \pm 2s$ (s)	7	2.46	9	2.40	11	2.45	8	2.44
19.4. $\bar{x} \pm 2s$ (s)	8	0.1-0.27	10	0.1-0.25	12	0.1-0.14	9	0.1-0.20
19.5. $\bar{x} \pm 2s$ (s)	7	6.69	8	6.65	10	6.60	9	6.545
19.6. $\bar{x} \pm 2s$ (s)	6	6	6	7	7	7	7	7
19.7. $\bar{x} \pm 2s$ (s)	6	3	3	4	4	4	4	4
19.8. $\bar{x} \pm 2s$ (s)	14	7	7	8	8	10	10	10
19.9. $\bar{x} \pm 2s$ (s)	20	8	8	9	9	11	11	11
19.10. $\bar{x} \pm 2s$ (s)	11	8	8	9	9	11	11	11
20. SUBSAMPLABLE DRY WEIGHT (mg)		70.64	66.16	61.74	53.76			
21. SPHERICITY (mg)								
22. PLASTICITY (mg)								
23. SHREDDING PLASTICITY (mg)								
24. SHREDDING PLASTICITY (mg)								
25. SECONDARY MINERALS (%)								
26. OTHER MINERALS (%)								
27. REMARKS:	FENS 11-26 PERFORMED IN THE LAB. 0-5" - Hard sticky clay mud with pebbles. 5-80" - Silt, sand with pebbles. 80-86" - Silt, sand unconsolidated.							

SEDIMENT TYPE	Silt, Sand	Silt, Sand	Silt, Sand	Silt, Sand
WATER DEPTH (m.)	10.0	10.0	10.0	10.0
WATER DEPTH (m.)	10.0	10.0	10.0	10.0
WATER DEPTH (m.)	10.0	10.0	10.0	10.0
WATER DEPTH (m.)	10.0	10.0	10.0	10.0

1. SAMPLE NUMBER	66-159-1 : CONTINUED			5. SAMPLER TYPE				
2. LATITUDE				6. WATER DEPTH (m.)				
3. LONGITUDE				7. CORE LENGTH (m.)				
4. DATE (day, month, year)				8. CORE PENETRATION (m.)				
9. LABORATORY NUMBERS	3931	3932	3933	3934	3934			
10. SUBSAMPLE DEPTH IN CORE (m.)	68-72	76-80	80-86	88-90	88-90			
11. COLOR	DRY GRAY (5-Y 4/1)	DRY GRAY (5-Y 4/1)	DRY GRAY (5-Y 4/1)	DRY GRAY (5-Y 4/1)	GRAYISH BLACK N2			
12. MOOR								
13. WET DENSITY (lb./ft. ³)								
14. RIGIDITY (mm)								
15. MAXIMUM POROSITY (%)								
16. MINIMUM POROSITY (%)								
17. WATER CONTENT (%)								
18. ORGANIC CARBON CONTENT (%)								
19. SITE ANALYSIS AND STATISTICAL MEASURES								
19.1. $\bar{x} \pm 2s$ (s)	50	103.250	31	103.371	11	103.321	59	103.191
19.2. $\bar{x} \pm 2s$ (s)	8	31.715	9	31.7039	10	31.711	10	31.7142
19.3. $\bar{x} \pm 2s$ (s)	6	2.40	8	2.40	10	2.40	7	2.40
19.4. $\bar{x} \pm 2s$ (s)	7	0.0236	8	0.0247	13	0.0240	6	0.0245
19.5. $\bar{x} \pm 2s$ (s)	6	6.65	8	6.65	11	6.65	4	6.65
19.6. $\bar{x} \pm 2s$ (s)	5	6	6	8	8	8	3	3
19.7. $\bar{x} \pm 2s$ (s)	3	3	3	4	4	4	1	1
19.8. $\bar{x} \pm 2s$ (s)	5	5	8	9	9	9	3	3
19.9. $\bar{x} \pm 2s$ (s)	5	5	8	8	10	10	3	3
19.10. $\bar{x} \pm 2s$ (s)	6	6	11	11	13	13	4	4
20. SUBSAMPLABLE DRY WEIGHT (mg)		71.22	48.18	53.64	69.44			
21. SPHERICITY (mg)								
22. PLASTICITY (mg)								
23. SHREDDING PLASTICITY (mg)								
24. SHREDDING PLASTICITY (mg)								
25. SECONDARY MINERALS (%)								
26. OTHER MINERALS (%)								
27. REMARKS:	86-90" Sand, Silt, Shell, pebbles							

SEDIMENT TYPE	Silt, Sand	Silt, Sand	Silt, Sand	Silt, Sand
WATER DEPTH (m.)	10.0	10.0	10.0	10.0
WATER DEPTH (m.)	10.0	10.0	10.0	10.0
WATER DEPTH (m.)	10.0	10.0	10.0	10.0
WATER DEPTH (m.)	10.0	10.0	10.0	10.0

1. SAMPLE NUMBER	66-160-1
2. LATITUDE	44° 06' 14" N
3. LONGITUDE	68° 03' 26" W
4. DATE (day, month, year)	30 September 1969
5. LABORATORY NUMBERS	5318
6. WATER DEPTH (m.)	10.8
11. COLOR	Dark Brown 10.8/12
12. ODR	
13. NET DENSITY (lb./ft ³)	
14. RIGIDNESS (cm)	
15. MEDIUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	

8. $\sigma_v = -2.0$ (s)	9	10. $\sigma_v = 2.03$
9. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	8	11. $\sigma_v = 1.633$
10. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	12	12. $\sigma_v = 1.40$
11. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	14	13. $\sigma_v = 0.7-0.30$
12. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	16	14. $\sigma_v = 3.75$
13. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	12	
14. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	8	
15. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	9	
16. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	6	
17. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	10	
20. SUBSAMPLE DRY WEIGHT (gm)	35.08	
21. SPECIFIC (gwg.)		
22. unconsolidated Plasticity	Low	
23. unconsolidated liquid limit Shells // Ca.	1%	
24. INDIAN MATERIAL (%)		
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		
27. REMARKS: Items 11-26 determined in the lab		

Sediment Type	Silty Sand
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1. SAMPLE NUMBER	66-161-1
2. LATITUDE	44° 06' 25" N
3. LONGITUDE	68° 58' 00" W
4. DATE (day, month, year)	30 September 1969
5. LABORATORY NUMBERS	5319
6. WATER DEPTH (m.)	16.7
11. COLOR	Dark Yellowish Brown 10.8/12
12. ODR	
13. NET DENSITY (lb./ft ³)	
14. RIGIDNESS (cm)	
15. MEDIUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	

8. $\sigma_v = -2.0$ (s)	11	10. $\sigma_v = 1.88$
9. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	7	11. $\sigma_v = 1.028$
10. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	10	12. $\sigma_v = 1.35$
11. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	16	13. $\sigma_v = 0.7-0.35$
12. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	19	14. $\sigma_v = 3.60$
13. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	10	
14. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	3	
15. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	12	
16. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	2	
17. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	11	
20. SUBSAMPLE DRY WEIGHT (gm)	3.91	
21. SPECIFIC (gwg.)		
22. unconsolidated Plasticity	Low	
23. unconsolidated liquid limit Shells // Ca.	1%	
24. INDIAN MATERIAL (%)		
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		
27. REMARKS: Items 11-26 determined in the lab		

Sediment Type	Silty Sand
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1. SAMPLE NUMBER	66-163-1
2. LATITUDE	44° 03' 14" N
3. LONGITUDE	68° 57' 58" W
4. DATE (day, month, year)	30 September 1969
5. LABORATORY NUMBERS	5320
6. WATER DEPTH (m.)	10.0
11. COLOR	Olive Gray 5/4/1
12. ODR	
13. NET DENSITY (lb./ft ³)	
14. RIGIDNESS (cm)	
15. MEDIUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	

8. $\sigma_v = -2.0$ (s)	69	10. $\sigma_v = 1.80$
9. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	6	11. $\sigma_v = 1.096$
10. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	5	12. $\sigma_v = 3.75$
11. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	3	13. $\sigma_v = 0.7-0.40$
12. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	3	14. $\sigma_v = 1.00$
13. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	3	
14. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	1	
15. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	2	
16. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	4	
17. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	5	
20. SUBSAMPLE DRY WEIGHT (gm)	159.71	
21. SPECIFIC (gwg.)		
22. unconsolidated Plasticity	None	
23. unconsolidated liquid limit Shells // Ca.	10%	
24. INDIAN MATERIAL (%)		
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		
27. REMARKS: Items 11-26 determined in the lab		

Sediment Type	Pebbles / Sand
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1. SAMPLE NUMBER	66-169-1
2. LATITUDE	43° 59' 47" N
3. LONGITUDE	68° 56' 46" W
4. DATE (day, month, year)	30 September 1969
5. LABORATORY NUMBERS	
6. WATER DEPTH (m.)	18.2
11. COLOR	(Variegated) Olive Gray 5/4/1
12. ODR	
13. NET DENSITY (lb./ft ³)	
14. RIGIDNESS (cm)	
15. MEDIUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	

8. $\sigma_v = -2.0$ (s)	36	10. $\sigma_v = 1.92$
9. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	13	11. $\sigma_v = 1.003$
10. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	18	12. $\sigma_v = -0.85$
11. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	8	13. $\sigma_v = 0.7-2.85$
12. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	12	14. $\sigma_v = 1.00$
13. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	3	
14. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	1	
15. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	3	
16. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	4	
17. $\sigma_v = -1.6$ to $\sigma_v = 1.6$ (s)	3	
20. SUBSAMPLE DRY WEIGHT (gm)	68.90	
21. SPECIFIC (gwg.)		
22. unconsolidated Plasticity	None	
23. unconsolidated liquid limit Shells // Ca.	75%	
24. INDIAN MATERIAL (%)		
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		
27. REMARKS: Items 11-26 determined in the lab		

Sediment Type	Pebby Sand
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1. SAMPLE NUMBER	66-169-1
2. LATITUDE	43 58 N
3. LONGITUDE	68 52 W
4. DATE (day, month, year)	30 September 1969
5. LABORATORY NUMBERS	5822
6. WATER DEPTH (m)	22.6
11. COLOR	Olive Gray 5741 Paul
12. ODR	
13. WET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	

a. < 2 ₅ (%)	21	(0 ₁) 4.68
b. -2 ₅ to -1 ₅ (%)	11	(0 ₁) 4.63
c. -1 ₅ to 0 ₁ (%)	8	(0 ₁) 1.66
d. 0 ₁ to 1 ₅ (%)	8	(0 ₁) 1.70
e. 1 ₅ to 2 ₅ (%)	6	(0 ₁) 7.45
f. 2 ₅ to 3 ₅ (%)	4	
g. 3 ₅ to 4 ₅ (%)	3	
h. 4 ₅ to 6 ₅ (%)	1	
i. 6 ₅ to 9 ₅ (%)	14	
j. > 9 ₅ (%)	17	
20. SUSPENSIBLE DRY WEIGHT (gm)	29.88	
21. SPECIFIC (avg.)		
22. PLASTICITY	Low	
23. SHRETT-KINCHIN PLASTICITY	Low	
24. DOMINANT MINERAL (%)	5%	
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		
27. REMARKS: Items 11-26 determined in the lab		

Sediment Type	Soft, silty with 10% coarsest material
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1. SAMPLE NUMBER	66-170-1
2. LATITUDE	43 58 N
3. LONGITUDE	68 51 W
4. DATE (day, month, year)	30 September 1969
5. LABORATORY NUMBERS	5823
6. WATER DEPTH (m)	22.5
11. COLOR	Olive Black 6721 Paul
12. ODR	
13. WET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	

a. < 2 ₅ (%)	17	(0 ₁) 3.25
b. -2 ₅ to -1 ₅ (%)	8	(0 ₁) 4.05
c. -1 ₅ to 0 ₁ (%)	6	(0 ₁) 1.80
d. 0 ₁ to 1 ₅ (%)	7	(0 ₁) 1.00
e. 1 ₅ to 2 ₅ (%)	16	(0 ₁) 5.50
f. 2 ₅ to 3 ₅ (%)	13	
g. 3 ₅ to 4 ₅ (%)	4	
h. 4 ₅ to 6 ₅ (%)	6	
i. 6 ₅ to 9 ₅ (%)	11	
j. > 9 ₅ (%)	13	
20. SUSPENSIBLE DRY WEIGHT (gm)	40.22	
21. SPECIFIC (avg.)		
22. PLASTICITY	Very Low	
23. SHRETT-KINCHIN PLASTICITY	Very Low	
24. DOMINANT MINERAL (%)	30%	
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		
27. REMARKS: Items 11-26 determined in the lab		

Sediment Type	Silty sand with 10% coarsest material
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1. SAMPLE NUMBER	66-171-1
2. LATITUDE	43 58 N
3. LONGITUDE	68 49 W
4. DATE (day, month, year)	30 September 1969
5. LABORATORY NUMBERS	5801
6. WATER DEPTH (m)	25.7
11. COLOR	Dark Yellowish Brown 10784/2
12. ODR	
13. WET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	

a. < 2 ₅ (%)	24	(0 ₁) 2.75
b. -2 ₅ to -1 ₅ (%)	13	(0 ₁) 4.90
c. -1 ₅ to 0 ₁ (%)	14	(0 ₁) 1.05
d. 0 ₁ to 1 ₅ (%)	12	(0 ₁) 1.90
e. 1 ₅ to 2 ₅ (%)	8	(0 ₁) 3.60
f. 2 ₅ to 3 ₅ (%)	3	
g. 3 ₅ to 4 ₅ (%)	2	
h. 4 ₅ to 6 ₅ (%)	8	
i. 6 ₅ to 9 ₅ (%)	8	
j. > 9 ₅ (%)	11	
20. SUSPENSIBLE DRY WEIGHT (gm)	50.12	
21. SPECIFIC (avg.)		
22. PLASTICITY	None	
23. SHRETT-KINCHIN PLASTICITY	None	
24. DOMINANT MINERAL (%)	10%	
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		
27. REMARKS: Items 11-26 determined in the lab		

Sediment Type	Pebbly Sand
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1. SAMPLE NUMBER	66-174-1
2. LATITUDE	43 57 N
3. LONGITUDE	68 52 W
4. DATE (day, month, year)	30 September 1969
5. LABORATORY NUMBERS	5302
6. WATER DEPTH (m)	41.3
11. COLOR	Dark Yellowish Brown 10784/2
12. ODR	
13. WET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES	

a. < 2 ₅ (%)	36	(0 ₁) 4.81
b. -2 ₅ to -1 ₅ (%)	8	(0 ₁) 4.94
c. -1 ₅ to 0 ₁ (%)	3	(0 ₁) 1.37
d. 0 ₁ to 1 ₅ (%)	2	(0 ₁) 2.50
e. 1 ₅ to 2 ₅ (%)	4	(0 ₁) 7.12
f. 2 ₅ to 3 ₅ (%)	8	
g. 3 ₅ to 4 ₅ (%)	8	
h. 4 ₅ to 6 ₅ (%)	8	
i. 6 ₅ to 9 ₅ (%)	8	
j. > 9 ₅ (%)	14	
20. SUSPENSIBLE DRY WEIGHT (gm)	27.13	
21. SPECIFIC (avg.)		
22. PLASTICITY	Low	
23. SHRETT-KINCHIN PLASTICITY	Low	
24. DOMINANT MINERAL (%)	0	
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		
27. REMARKS: Items 11-26 determined in the lab		

Sediment Type	Soft, silty with 10% coarsest material
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1. SAMPLE NUMBER	66-175-1
2. LATITUDE	43° 57' 18" N
3. LONGITUDE	68° 54' 14" W
4. DATE (Day, month, year)	30 September 1989
5. LABORATORY NUMBERS	5384
6. WATER DEPTH (m.)	17.2

11. COLOR	Dark Yellowish Brown 10.84
12. ODOR	
13. WET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES

a. ϕ to -2ϕ (%)	39
b. -2ϕ to -1ϕ (%)	24
c. -1ϕ to 0ϕ (%)	21
d. 0ϕ to 1ϕ (%)	11
e. 1ϕ to 2ϕ (%)	2
f. 2ϕ to 3ϕ (%)	1
g. 3ϕ to 4ϕ (%)	1
h. 4ϕ to 5ϕ (%)	1
i. 5ϕ to 6ϕ (%)	1
j. 6ϕ to 7ϕ (%)	1
k. 7ϕ to 8ϕ (%)	1
20. DISPERSED DRY WEIGHT (mm)	60.00
21. SPECIFICITY (avg.)	
22. PLASTICITY (avg.)	None
23. SHrinkage (avg.)	30.9%
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab.

1. SAMPLE NUMBER	66-177-1
2. LATITUDE	43° 00' 45" N
3. LONGITUDE	69° 00' 48" W
4. DATE (Day, month, year)	30 September 1989
5. LABORATORY NUMBERS	5303
6. WATER DEPTH (m.)	25.8

11. COLOR	Dark Yellowish Brown 10.84
12. ODOR	
13. WET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES

a. ϕ to -2ϕ (%)	7
b. -2ϕ to -1ϕ (%)	3
c. -1ϕ to 0ϕ (%)	2
d. 0ϕ to 1ϕ (%)	3
e. 1ϕ to 2ϕ (%)	11
f. 2ϕ to 3ϕ (%)	25
g. 3ϕ to 4ϕ (%)	12
h. 4ϕ to 5ϕ (%)	6
i. 5ϕ to 6ϕ (%)	14
j. 6ϕ to 7ϕ (%)	16
k. 7ϕ to 8ϕ (%)	16
20. DISPERSED DRY WEIGHT (mm)	32.39
21. SPECIFICITY (avg.)	
22. PLASTICITY (avg.)	Low
23. SHrinkage (avg.)	19%
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab.

1. SAMPLE NUMBER	66-178-1
2. LATITUDE	44° 04' 33" N
3. LONGITUDE	69° 00' 58" W
4. DATE (Day, month, year)	1 October 1989
5. LABORATORY NUMBERS	5304
6. WATER DEPTH (m.)	41.7

11. COLOR	Olive Black 6.92
12. ODOR	foul
13. WET DENSITY (lb./ft ³)	
14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES

a. ϕ to -2ϕ (%)	7
b. -2ϕ to -1ϕ (%)	1
c. -1ϕ to 0ϕ (%)	1
d. 0ϕ to 1ϕ (%)	1
e. 1ϕ to 2ϕ (%)	5
f. 2ϕ to 3ϕ (%)	16
g. 3ϕ to 4ϕ (%)	13
h. 4ϕ to 5ϕ (%)	13
i. 5ϕ to 6ϕ (%)	16
j. 6ϕ to 7ϕ (%)	16
k. 7ϕ to 8ϕ (%)	16
20. DISPERSED DRY WEIGHT (mm)	23.44
21. SPECIFICITY (avg.)	
22. PLASTICITY (avg.)	Low
23. SHrinkage (avg.)	0
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab.

The sample contained two large pebbles (1/2 x 3/4 x 1/8 - 4/16 in. x 1/4 - 9/16 in.) not included in analysis.

Sediment Type	Pebbly Sand	Sediment Type	Silty Sand
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1. SAMPLE NUMBER	66-177-1	5. SAMPLER TYPE	HULLENBERG
2. LATITUDE	44° 03'	6. WATER DEPTH (ft.)	36.6
3. LONGITUDE	69° 01' 10" W	7. CORE LENGTH (in.)	124
4. DATE (in month, year)	10/26/68	8. CORE PENETRATION (in.)	144
5. LABORATORY NUMBER	3856		3857
10. STRAIN & DEPTH IN CORE (cm.)	0-2	12-14	14-15.5
11. CUSP		DRILL GATHERY CON. (50%)	DRILL GATHERY CON. (50%)
12. ODSR			
13. WET DENSITY (lb./ft ³)			
14. RESIDUUM (%)			
15. MAXIMUM PROSISTY (%)			
16. MINIMUM PROSISTY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIFT ANALYSIS AND STATISTICAL MEASURES			
20. SUSPENSIBLE BY WEIGHT (%)			
21. SPHERICITY (DIE)			
22. PLASTICITY			
23. SHARP-EDGEDNESS			
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:			
28. COMMENTS			
29. COMMENTS			
30. COMMENTS			
31. COMMENTS			
32. COMMENTS			
33. COMMENTS			
34. COMMENTS			
35. COMMENTS			
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92. COMMENTS			
93. COMMENTS			
94. COMMENTS			
95. COMMENTS			
96. COMMENTS			
97. COMMENTS			
98. COMMENTS			
99. COMMENTS			
100. COMMENTS			

1. SAMPLE NUMBER	65-179-1: CONTINUED	5. SAMPLER TYPE	
2. LATITUDE		5. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (Day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBER	3164	3165	3167 *
10. SUBSAMPLE DEPTH IN CORE (m.)	47-49	49-51	67-69
11. COLOR	Dark Greenish Gray (5.6 M.)		
12. DOOR			
13. WET DENSITY (lb./ft ³)			
14. RIGIDITY (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2, (s)	9	10 ₂	10 ₃
b. > 2, to < 1, (s)		10 ₂	10 ₃
c. < 1, to 0, (s)		10 ₂	10 ₃
d. 0, to 1, (s)		10 ₂	10 ₃
e. 1, to 2, (s)		10 ₂	10 ₃
f. 2, to 3, (s)		10 ₂	10 ₃
g. 3, to 4, (s)		10 ₂	10 ₃
h. 4, to 5, (s)		10 ₂	10 ₃
i. 5, to 6, (s)		10 ₂	10 ₃
j. > 6, (s)		10 ₂	10 ₃
20. SUBSAMPLE DRY WEIGHT (m)	20.88	33.02	32.42
21. SPHERICITY (p.p.)			
22. PLASTICITY	High	High	High
23. SHrinkage (mm)	0	< 1%	< 1%
24. DRYHEAT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS	Black layers and lenses of olive gray silt from 49-98" 98-106" Soft, surry, olive gray		
SEGMENT TYPE	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT

1. SAMPLE NUMBER	66-179-1: CONTINUED	5. SAMPLER TYPE	
2. LATITUDE		5. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (Day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBER	3168	3169	3171
10. SUBSAMPLE DEPTH IN CORE (m.)	98-106	106-108	111-113
11. COLOR	Dark Greenish Gray (5.6 M.)		
12. DOOR			
13. WET DENSITY (lb./ft ³)			
14. RIGIDITY (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2, (s)		10 ₂	10 ₃
b. > 2, to < 1, (s)		10 ₂	10 ₃
c. < 1, to 0, (s)		10 ₂	10 ₃
d. 0, to 1, (s)		10 ₂	10 ₃
e. 1, to 2, (s)		10 ₂	10 ₃
f. 2, to 3, (s)		10 ₂	10 ₃
g. 3, to 4, (s)		10 ₂	10 ₃
h. 4, to 5, (s)		10 ₂	10 ₃
i. 5, to 6, (s)		10 ₂	10 ₃
j. > 6, (s)		10 ₂	10 ₃
20. SUBSAMPLE DRY WEIGHT (m)	24.05	23.11	16.93
21. SPHERICITY (p.p.)			
22. PLASTICITY	Low	High	Med.
23. SHrinkage (mm)	0	0	0
24. DRYHEAT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS	106-113 Dark green w/ black layers. 113-124 Soft olive gray sandy med.		
SEGMENT TYPE	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT

1. SAMPLE NUMBER	66-180-1	5. SHIPPER TYPE	KULLENBERG	
2. LATITUDE	44° 00' 38" N	6. WATER DEPTH (m.)	42.5'	
3. LONGITUDE	69° 00' 53" W	7. CORE LENGTH (m.)	126	
4. DATE (day, month, year)	1 OCT. 1959	8. CORE PENETRATION (m.)	144	
9. LABORATORY NUMBERS	3590	3591	3592	3593
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2	18-20	47-49	73-76
11. COLOR	DARK GREENISH GRAY	GRAYISH OLIVE GREEN	58Y 3/4	58Y 3/4
12. ODR	58Y 4/1	58Y 3/4		
13. WET DENSITY (lb./ft ³)				
14. RHO (g/cm ³)				
15. MAXIMUM POROSITY (%)				
16. MINIMUM POROSITY (%)				
17. WATER CONTENT (%)				
18. ORGANIC CARBON CONTENT (%)				
19. SIZE ANALYSIS AND STATISTICAL MEASURES				
a. < 2 ₅ (%)	100	26.5	00 ₂	00 ₂
b. < 2 ₅ to < 1 ₅ (%)	100	12.9	50 ₂	50 ₂
c. < 1 ₅ to < 1 ₀ (%)	100	4.86	100	6.91
d. < 1 ₀ to < 1 ₅ (%)	100	3.50	100	4.37
e. < 1 ₅ to < 1 ₀ (%)	100	8.80	100	10.2
f. < 1 ₀ to < 1 ₅ (%)	100	39	8	4
g. < 1 ₅ to < 1 ₀ (%)	100	18	37	41
h. < 1 ₀ to < 1 ₅ (%)	100	17	22	27
i. < 1 ₅ to < 1 ₀ (%)	100	24	31	30
j. < 1 ₀ to < 1 ₅ (%)	100	29.71	30.52	32.27
20. SUBSAMPLE DRY WEIGHT (g)				28.53
21. SPECIFICITY (avg.)				
22. MINIMUM PLASTICITY	High	High	High	High
23. MINIMUM PLASTICITY	0	47%	< 1%	0
24. DOMINANT MINERAL (%)				
25. SECONDARY MINERAL (%)				
26. OTHER MINERALS (%)				
27. REMARKS	SCATTERED SHELL THROUGHOUT THE CORE. 3 INCHES GAP AT 27" BLACK STREAKS IN THE TOP TWO AND BOTTOM TWO INCHES OF THE CORE APPEAR UNIFORM SOFT BOUNCY MATERIAL AT 103 INCHES.			
28. OTHER REMARKS	ITEMS 11-26 DETERMINED IN THE LAB.			
29. REMARKS	SEDIMENT TYPE SANDY AND CLAYEY SILT CLAYEY SILT CLAYEY SILT			

1. SAMPLE NUMBER	66-180-1	5. SHIPPER TYPE	CONTINUED
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3594	3595	3596
10. SUBSAMPLE DEPTH IN CORE (m.)	99-101	124-126	
11. COLOR	GRAYISH OLIVE GREEN	58Y 3/4	58Y 3/4
12. ODR			
13. WET DENSITY (lb./ft ³)			
14. RHO (g/cm ³)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2 ₅ (%)	100	100	100
b. < 2 ₅ to < 1 ₅ (%)	50 ₂	50 ₂	50 ₂
c. < 1 ₅ to < 1 ₀ (%)	100	6.96	6.86
d. < 1 ₀ to < 1 ₅ (%)	100	5.46	5.48
e. < 1 ₅ to < 1 ₀ (%)	100	100	100
f. < 1 ₀ to < 1 ₅ (%)	100	100	100
g. < 1 ₅ to < 1 ₀ (%)	100	100	100
h. < 1 ₀ to < 1 ₅ (%)	100	100	100
i. < 1 ₅ to < 1 ₀ (%)	100	100	100
j. < 1 ₀ to < 1 ₅ (%)	100	100	100
20. SUBSAMPLE DRY WEIGHT (g)		18.66	20.62
21. SPECIFICITY (avg.)			
22. MINIMUM PLASTICITY	High	High	High
23. MINIMUM PLASTICITY	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS	* Black layers		
28. OTHER REMARKS	SEDIMENT TYPE CLAYEY SILT CLAYEY SILT CLAYEY SILT		

1. SAMPLE NUMBER	66-181-1	2. DATE	10 October 1959	3. LOCATION	Kullerberg
4. LATITUDE	44 01 37 N	5. LONGITUDE	00 58 W	6. WATER DEPTH (ft.)	57.5
7. CORE LENGTH (in.)	65	8. CORE PENETRATION (in.)	9	9. CORE PENETRATION (in.)	40.93
10. LABORATORY NUMBERS	4091	11. CORE PENETRATION (in.)	40.92	12. CORE PENETRATION (in.)	15-17
13. COLOR	Dark Greenish Gray 50Y4/1	14. CORE PENETRATION (in.)	56Y4/1	15. CORE PENETRATION (in.)	Olive Gray 50Y4/1
16. SPECIFIC GRAVITY	2.65	17. SPECIFIC GRAVITY	2.65	18. SPECIFIC GRAVITY	2.65
19. SPECIFIC GRAVITY	2.65	20. SPECIFIC GRAVITY	2.65	21. SPECIFIC GRAVITY	2.65
22. SPECIFIC GRAVITY	2.65	23. SPECIFIC GRAVITY	2.65	24. SPECIFIC GRAVITY	2.65
25. SPECIFIC GRAVITY	2.65	26. SPECIFIC GRAVITY	2.65	27. SPECIFIC GRAVITY	2.65
28. SPECIFIC GRAVITY	2.65	29. SPECIFIC GRAVITY	2.65	30. SPECIFIC GRAVITY	2.65
31. SPECIFIC GRAVITY	2.65	32. SPECIFIC GRAVITY	2.65	33. SPECIFIC GRAVITY	2.65
34. SPECIFIC GRAVITY	2.65	35. SPECIFIC GRAVITY	2.65	36. SPECIFIC GRAVITY	2.65
37. SPECIFIC GRAVITY	2.65	38. SPECIFIC GRAVITY	2.65	39. SPECIFIC GRAVITY	2.65
40. SPECIFIC GRAVITY	2.65	41. SPECIFIC GRAVITY	2.65	42. SPECIFIC GRAVITY	2.65
43. SPECIFIC GRAVITY	2.65	44. SPECIFIC GRAVITY	2.65	45. SPECIFIC GRAVITY	2.65
46. SPECIFIC GRAVITY	2.65	47. SPECIFIC GRAVITY	2.65	48. SPECIFIC GRAVITY	2.65
49. SPECIFIC GRAVITY	2.65	50. SPECIFIC GRAVITY	2.65	51. SPECIFIC GRAVITY	2.65
52. SPECIFIC GRAVITY	2.65	53. SPECIFIC GRAVITY	2.65	54. SPECIFIC GRAVITY	2.65
55. SPECIFIC GRAVITY	2.65	56. SPECIFIC GRAVITY	2.65	57. SPECIFIC GRAVITY	2.65
58. SPECIFIC GRAVITY	2.65	59. SPECIFIC GRAVITY	2.65	60. SPECIFIC GRAVITY	2.65
61. SPECIFIC GRAVITY	2.65	62. SPECIFIC GRAVITY	2.65	63. SPECIFIC GRAVITY	2.65
64. SPECIFIC GRAVITY	2.65	65. SPECIFIC GRAVITY	2.65	66. SPECIFIC GRAVITY	2.65
67. SPECIFIC GRAVITY	2.65	68. SPECIFIC GRAVITY	2.65	69. SPECIFIC GRAVITY	2.65
70. SPECIFIC GRAVITY	2.65	71. SPECIFIC GRAVITY	2.65	72. SPECIFIC GRAVITY	2.65
73. SPECIFIC GRAVITY	2.65	74. SPECIFIC GRAVITY	2.65	75. SPECIFIC GRAVITY	2.65
76. SPECIFIC GRAVITY	2.65	77. SPECIFIC GRAVITY	2.65	78. SPECIFIC GRAVITY	2.65
79. SPECIFIC GRAVITY	2.65	80. SPECIFIC GRAVITY	2.65	81. SPECIFIC GRAVITY	2.65
82. SPECIFIC GRAVITY	2.65	83. SPECIFIC GRAVITY	2.65	84. SPECIFIC GRAVITY	2.65
85. SPECIFIC GRAVITY	2.65	86. SPECIFIC GRAVITY	2.65	87. SPECIFIC GRAVITY	2.65
88. SPECIFIC GRAVITY	2.65	89. SPECIFIC GRAVITY	2.65	90. SPECIFIC GRAVITY	2.65
91. SPECIFIC GRAVITY	2.65	92. SPECIFIC GRAVITY	2.65	93. SPECIFIC GRAVITY	2.65
94. SPECIFIC GRAVITY	2.65	95. SPECIFIC GRAVITY	2.65	96. SPECIFIC GRAVITY	2.65
97. SPECIFIC GRAVITY	2.65	98. SPECIFIC GRAVITY	2.65	99. SPECIFIC GRAVITY	2.65
100. SPECIFIC GRAVITY	2.65	101. SPECIFIC GRAVITY	2.65	102. SPECIFIC GRAVITY	2.65
103. SPECIFIC GRAVITY	2.65	104. SPECIFIC GRAVITY	2.65	105. SPECIFIC GRAVITY	2.65
106. SPECIFIC GRAVITY	2.65	107. SPECIFIC GRAVITY	2.65	108. SPECIFIC GRAVITY	2.65
109. SPECIFIC GRAVITY	2.65	110. SPECIFIC GRAVITY	2.65	111. SPECIFIC GRAVITY	2.65
112. SPECIFIC GRAVITY	2.65	113. SPECIFIC GRAVITY	2.65	114. SPECIFIC GRAVITY	2.65
115. SPECIFIC GRAVITY	2.65	116. SPECIFIC GRAVITY	2.65	117. SPECIFIC GRAVITY	2.65
118. SPECIFIC GRAVITY	2.65	119. SPECIFIC GRAVITY	2.65	120. SPECIFIC GRAVITY	2.65
121. SPECIFIC GRAVITY	2.65	122. SPECIFIC GRAVITY	2.65	123. SPECIFIC GRAVITY	2.65
124. SPECIFIC GRAVITY	2.65	125. SPECIFIC GRAVITY	2.65	126. SPECIFIC GRAVITY	2.65
127. SPECIFIC GRAVITY	2.65	128. SPECIFIC GRAVITY	2.65	129. SPECIFIC GRAVITY	2.65
130. SPECIFIC GRAVITY	2.65	131. SPECIFIC GRAVITY	2.65	132. SPECIFIC GRAVITY	2.65
133. SPECIFIC GRAVITY	2.65	134. SPECIFIC GRAVITY	2.65	135. SPECIFIC GRAVITY	2.65
136. SPECIFIC GRAVITY	2.65	137. SPECIFIC GRAVITY	2.65	138. SPECIFIC GRAVITY	2.65
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continued:

27. REMARKS:

continued:
30-41" Gray clayey silt w/ ~~black~~ layers.
41-58" Soft, sandy
58-65" Gray clay silt w/ black layers & areas
of ^{light} gray clay

Sediment Type	Clayey Silt	Sandy Silt	Sandy Mud

Sediment Type	Clayey Silt	Silty Mud	Sandy Mud	Clayey Silt

1. SAMPLE NUMBER	66-81-1 continued	5. SAMPLER TYPE	
2. DATE		6. CORE PENETRATION (cm)	
3. SITE		7. CORE LOCATION (cm)	
4. DATE		8. CORE DEPTH (cm)	
9. LABORATORY NUMBER		9. CORE DIAMETER (cm)	
10. DESCRIPTION	4099 Olive Gray 5741	4100 57-59 Medium Dark Gray N3 Dark Gray N3 Olive Gray 5741	4102 69-65 Medium Dark Gray N3
11. DATE			
12. ROOM			
13. CORE DEPTH (cm)			
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1. SAMPLE NUMBER	66-182-1
2. LAT. TIME	44 00 37.5 N
3. LONGITUDE	69 00 57 W
4. DATE (day, month, year)	1 October 1963
5. LABORATORY NUMBER	6386
6. WATER DEPTH (m.)	440
7. COLOR	Dark yellowish brown 154742
8. DOOR	
9. NET DENSITY (lb./ft ³)	
10. SPODENE (‰)	
11. MAXIMUM POROSITY (%)	
12. MINIMUM POROSITY (%)	
13. WATER CONTENT (%)	
14. ORGANIC CARBON CONTENT (%)	
15. SIZE ANALYSIS AND STATISTICAL MEASURES	
$\Sigma x_i \cdot x_i^2 / \Sigma x_i$	31
$\Sigma x_i^2 - 1/n \cdot (\Sigma x_i)^2$	6
$\Sigma x_i^3 - 1/n \cdot (\Sigma x_i)^3$	7
$\Sigma x_i^4 - 1/n \cdot (\Sigma x_i)^4$	21
$\Sigma x_i^5 - 1/n \cdot (\Sigma x_i)^5$	19
$\Sigma x_i^6 - 1/n \cdot (\Sigma x_i)^6$	2
$\Sigma x_i^7 - 1/n \cdot (\Sigma x_i)^7$	3
$\Sigma x_i^8 - 1/n \cdot (\Sigma x_i)^8$	4
$1 - \Sigma x_i^9 / \Sigma x_i$	6
20. SUSPENSIBLE DRY WEIGHT (mg)	37.43
21. SPECIFIC (grav.)	
22. Specific gravity $\frac{W_{\text{wet}}}{W_{\text{dry}}}$	1.60
23. Gravimetric residue $\frac{W_{\text{residue}}}{W_{\text{dry}}}$	1%
24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	
27. REMARKS: Items 11-20 determined in the lab The sample contained one cobble (2 1/2" x 1 1/4" x .97 gms) Not included in analysis.	
Sediment Type	Sand

1. SAMPLE NUMBER	66-183-1
2. LATITUDE	43° 59' N
3. LONGITUDE	69° 00' W
4. DATE (day, month, year)	1 October 1959
5. LABORATORY NUMBER	5326
6. WATER SAMPLE (no.)	15-B
7. COLOR	Dark Yellowish Brown 105/24/2
8. DDB	
9. WET DENSITY (lb./in. ³)	
10. REFERENCE (no.)	
11. MEANING PROBABILITY (%)	
12. HYDROXIDE PROBABILITY (%)	
13. WATER CONTENT (%)	
14. ORGANIC CARBON CONTENT (%)	
15. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. $\bar{x}_1 - 2s_1$ (4)	14
b. $\bar{x}_2 - 2s_2$ to \bar{x}_1 (2)	4
c. $\bar{x}_1 - 1s_1$ to \bar{x}_2 (4)	10
d. \bar{x}_2 to \bar{x}_1 (4)	17
e. \bar{x}_1 to \bar{x}_2 (4)	18
f. \bar{x}_2 to \bar{x}_1 (4)	11
g. \bar{x}_2 to \bar{x}_1 (4)	3
h. \bar{x}_1 to \bar{x}_2 (4)	6
i. \bar{x}_2 to \bar{x}_1 (4)	6
j. \bar{x}_1 (4)	10
16. SUSCEPTIBLE DRY WEIGHT (%)	35.27
17. SPECIFIC GRAVITY	Low
18. Plasticity	25%
19. plastic limit (mm) 1/64 in.	
20. DOMINANT MINERAL (%)	
21. SECONDARY MINERAL (%)	
22. OTHER MINERALS (%)	
23. REMARKS: Items 11-26 determined in the lab	
Sediment type	Pebbly Sand

1. SAMPLE NUMBER	66-124-1	5. SAMPLER TYPE	KULLENBERG
2. LATITUDE	43 58 47 N	6. WATER DEPTH (m.)	40.0
3. LONGITUDE	68 59 35 W	7. CORE LENGTH (in.)	17
4. DATE (day, month, year)	1 October 1959	8. CORE PRESERVATION (‰)	10P
5. LABOURATORY NUMBERS	8321	9. LABOURATORY NUMBERS	3706
6. WATER DEPTH (m.)	27.5	10. SUBSAMPLE DEPTH IN CORE (in.)	0-2
7. COLOR	Dark Brown Yellowish 10YR/4	11. COLOR	Dark Gray M3
12. ODOR		12. ODOR	
13. NET DENSITY (lb./ft ³)		13. NET DENSITY (lb./ft ³)	
14. FRICTION (cm)		14. FRICTION (cm)	
15. MAXIMUM POROSITY (%)		15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES		19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	0 _φ	a. < 2 _φ (%)	49
b. 2 _φ to -1 _φ (%)	1	b. 2 _φ to -1 _φ (%)	8
c. -1 _φ to 0 _φ (%)	1	c. -1 _φ to 0 _φ (%)	9
d. 0 _φ to 1 _φ (%)	1	d. 0 _φ to 1 _φ (%)	7
e. 1 _φ to 2 _φ (%)	7	e. 1 _φ to 2 _φ (%)	4
f. 2 _φ to 3 _φ (%)	31	f. 2 _φ to 3 _φ (%)	2
g. 3 _φ to 4 _φ (%)	14	g. 3 _φ to 4 _φ (%)	2
h. 4 _φ to 6 _φ (%)	6	h. 4 _φ to 6 _φ (%)	5
i. 6 _φ to 8 _φ (%)	7	i. 6 _φ to 8 _φ (%)	6
j. > 8 _φ (%)	12	j. > 8 _φ (%)	8
20. SUBSAMPLE DRY WEIGHT (gm)	32.42	20. SUBSAMPLE DRY WEIGHT (gm)	63.94
21. SPECIFIC GRAVITY	Med	21. SPECIFIC GRAVITY	Med
22. MINERALOGY	< 1/2	22. MINERALOGY	< 1/2
23. MINERALOGY		23. MINERALOGY	
24. MINERALOGY		24. MINERALOGY	
25. SECONDARY MINERAL (%)		25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)		26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab		27. REMARKS: Items 11-26 determined in the lab	

1. SAMPLE NUMBER	66-165-1	5. SAMPLER TYPE	KULLENBERG
2. LATITUDE	43 59 37 N	6. WATER DEPTH (m.)	40.0
3. LONGITUDE	68 59 14 W	7. CORE LENGTH (in.)	17
4. DATE (day, month, year)	1 October 1959	8. CORE PRESERVATION (‰)	10P
5. LABOURATORY NUMBERS	3703 *	9. LABOURATORY NUMBERS	3706
6. WATER DEPTH (m.)	0-2	10. SUBSAMPLE DEPTH IN CORE (in.)	0-2
7. COLOR	Dark Gray M3	11. COLOR	Dark Gray M3
12. ODOR		12. ODOR	
13. NET DENSITY (lb./ft ³)		13. NET DENSITY (lb./ft ³)	
14. FRICTION (cm)		14. FRICTION (cm)	
15. MAXIMUM POROSITY (%)		15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES		19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < 2 _φ (%)	49	a. < 2 _φ (%)	16
b. 2 _φ to -1 _φ (%)	8	b. 2 _φ to -1 _φ (%)	5
c. -1 _φ to 0 _φ (%)	9	c. -1 _φ to 0 _φ (%)	4
d. 0 _φ to 1 _φ (%)	7	d. 0 _φ to 1 _φ (%)	5
e. 1 _φ to 2 _φ (%)	4	e. 1 _φ to 2 _φ (%)	6
f. 2 _φ to 3 _φ (%)	2	f. 2 _φ to 3 _φ (%)	3
g. 3 _φ to 4 _φ (%)	2	g. 3 _φ to 4 _φ (%)	3
h. 4 _φ to 6 _φ (%)	5	h. 4 _φ to 6 _φ (%)	17
i. 6 _φ to 8 _φ (%)	6	i. 6 _φ to 8 _φ (%)	19
j. > 8 _φ (%)	8	j. > 8 _φ (%)	33
20. SUBSAMPLE DRY WEIGHT (gm)	63.94	20. SUBSAMPLE DRY WEIGHT (gm)	48.27
21. SPECIFIC GRAVITY	Med	21. SPECIFIC GRAVITY	Med
22. MINERALOGY	< 1/2	22. MINERALOGY	< 1/2
23. MINERALOGY		23. MINERALOGY	
24. MINERALOGY		24. MINERALOGY	
25. SECONDARY MINERAL (%)		25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)		26. OTHER MINERALS (%)	
27. REMARKS: Items 11-26 determined in the lab		27. REMARKS: Items 11-26 determined in the lab	

* Notified

1. SAMPLE NUMBER	66-115-1	CHANNING	5. SAMPLER TYPE
2. LATITUDE			5. WATER DEPTH (m.)
3. LONGITUDE			7. CORE LENGTH (m.)
4. DATE (day, month, year)			8. CORE PENETRATION (m.)
9. LABORATORY NUMBERS	370-7		
10. SUBSAMPLE DEPTH IN CORE (m.)	15-17		
11. COLOR	Dark Gray N3		
12. ODR			
13. WET DENSITY (lb./ft ³)			
14. RIGIDITY (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. ϕ_1 to ϕ_4 (%)	4	4	4
b. ϕ_1 to ϕ_4 (%)	3	3	3
c. ϕ_1 to ϕ_4 (%)	3	3	3
d. ϕ_1 to ϕ_4 (%)	3	3	3
e. ϕ_1 to ϕ_4 (%)	3	3	3
f. ϕ_1 to ϕ_4 (%)	3	3	3
g. ϕ_1 to ϕ_4 (%)	3	3	3
h. ϕ_1 to ϕ_4 (%)	3	3	3
i. ϕ_1 to ϕ_4 (%)	3	3	3
j. ϕ_1 to ϕ_4 (%)	3	3	3
20. SUBSAMPLE DRY WEIGHT (gm)	3440		
21. SPECIFICITY (gm/cc)			
22. MINIMUM PLASTICITY	Med.		
23. MINIMUM PLASTICITY	0		
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS			

Sediment Type	Silt, Mud
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1. SAMPLE NUMBER	66-186-1		5. SAMPLER TYPE
2. LATITUDE	44° 00'	36° N	5. WATER DEPTH (m.)
3. LONGITUDE	68° 55'	34° W	7. CORE LENGTH (m.)
4. DATE (day, month, year)	1 October 1969		8. CORE PENETRATION (m.)
9. LABORATORY NUMBERS	5328		
10. SUBSAMPLE DEPTH IN CORE (m.)	31-2		
11. COLOR	Dark Yellowish Brown 10R 4/2		
12. ODR			
13. WET DENSITY (lb./ft ³)			
14. RIGIDITY (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. ϕ_1 to ϕ_4 (%)	39	39	39
b. ϕ_1 to ϕ_4 (%)	5	5	5
c. ϕ_1 to ϕ_4 (%)	4	4	4
d. ϕ_1 to ϕ_4 (%)	3	3	3
e. ϕ_1 to ϕ_4 (%)	7	7	7
f. ϕ_1 to ϕ_4 (%)	4	4	4
g. ϕ_1 to ϕ_4 (%)	7	7	7
h. ϕ_1 to ϕ_4 (%)	12	12	12
i. ϕ_1 to ϕ_4 (%)	19	19	19
20. SUBSAMPLE DRY WEIGHT (gm)	30.35		
21. SPECIFICITY (gm/cc)			
22. MINIMUM PLASTICITY	Med.		
23. MINIMUM PLASTICITY	8%		
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS	Items 11-26 determined in the lab		

Sediment Type	Clayey Sand
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1. SAMPLE NUMBER	66-187-1		5. SAMPLER TYPE
2. LATITUDE	44° 01'	28° N	5. WATER DEPTH (m.)
3. LONGITUDE	68° 59'	40° W	7. CORE LENGTH (m.)
4. DATE (day, month, year)	1 October 1969		8. CORE PENETRATION (m.)
9. LABORATORY NUMBERS	5329		
10. SUBSAMPLE DEPTH IN CORE (m.)	45.0		
11. COLOR	Dark Yellowish Brown 10R 4/2		
12. ODR			
13. WET DENSITY (lb./ft ³)			
14. RIGIDITY (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. ϕ_1 to ϕ_4 (%)	18	18	18
b. ϕ_1 to ϕ_4 (%)	6	6	6
c. ϕ_1 to ϕ_4 (%)	6	6	6
d. ϕ_1 to ϕ_4 (%)	18	18	18
e. ϕ_1 to ϕ_4 (%)	14	14	14
f. ϕ_1 to ϕ_4 (%)	4	4	4
g. ϕ_1 to ϕ_4 (%)	3	3	3
h. ϕ_1 to ϕ_4 (%)	5	5	5
i. ϕ_1 to ϕ_4 (%)	10	10	10
j. ϕ_1 to ϕ_4 (%)	16	16	16
20. SUBSAMPLE DRY WEIGHT (gm)	32.22		
21. SPECIFICITY (gm/cc)			
22. MINIMUM PLASTICITY	Med.		
23. MINIMUM PLASTICITY	2%		
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS	Items 11-26 determined in the lab		

Sediment Type	Clayey Sand with silt
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1. SAMPLE NUMBER	66-188-1
2. LATITUDE	44 02 44 N
3. LONGITUDE	68 59 45 W
4. DATE (day, month, year)	1 October 1969
5. LABORATORY NUMBERS	5330
6. WATER DEPTH (m.)	54.0
11. COLOR	Dark Yellowish Brown 10YR/2

12. ODR	
13. MET DENSITY (1b, 1b ²)	
14. RIGIDITY (cm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. -2 _φ (φ)	26	10 ₂	2.15
b. -2 _φ to -1 _φ (φ)	16	34	40.36
c. -1 _φ to 0 _φ (φ)	10	MS	-0.26
d. 0 _φ to 1 _φ (φ)	10	0 ₁	2.05
e. 1 _φ to 2 _φ (φ)	11	0 ₂	2.26
f. 2 _φ to 3 _φ (φ)	5		
g. 3 _φ to 4 _φ (φ)	2		
h. 4 _φ to 5 _φ (φ)	3		
i. 5 _φ to 6 _φ (φ)	5		
j. 6 _φ to 7 _φ (φ)			
k. 7 _φ to 8 _φ (φ)	11		

20. SUBSAMPLE DRY WEIGHT (gm)	34.48
21. SPECIFIC GRAVITY	
22. PLASTICITY (mm)	Med.
23. LIQUID-LIMIT (mm) Shell Cn	29
24. SHALTY MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab
The sample contained one pebble
(1/4 x 1/8 x 1/4 cm)
Not included in analysis

Sediment Type	Pebbly Sand
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1. SAMPLE NUMBER	66-189-1
2. LATITUDE	44 03 45 N
3. LONGITUDE	68 59 42 W
4. DATE (day, month, year)	1 October 1969
5. LABORATORY NUMBERS	5331
6. WATER DEPTH (m.)	56.0
11. COLOR	Olive Black 5Y/1

12. ODR	
13. MET DENSITY (1b, 1b ²)	
14. RIGIDITY (cm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. -2 _φ (φ)		0 ₂	
b. -2 _φ to -1 _φ (φ)		8	
c. -1 _φ to 0 _φ (φ)		1	MS 5.30
d. 0 _φ to 1 _φ (φ)		2	0 ₁ 2.80
e. 1 _φ to 2 _φ (φ)		3	0 ₂
f. 2 _φ to 3 _φ (φ)		23	
g. 3 _φ to 4 _φ (φ)		9	
h. 4 _φ to 5 _φ (φ)		12	
i. 5 _φ to 6 _φ (φ)		17	
j. 6 _φ to 7 _φ (φ)		26	

20. SUBSAMPLE DRY WEIGHT (gm)	24.03
21. SPECIFIC GRAVITY	
22. PLASTICITY (mm)	Med
23. LIQUID-LIMIT (mm) Shell Cn	0
24. SHALTY MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab

Sediment Type	Sandy Mud
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1. SAMPLE NUMBER	66-190-1
2. LATITUDE	44 04 35 N
3. LONGITUDE	68 59 47 W
4. DATE (day, month, year)	1 October 1969
5. LABORATORY NUMBERS	
6. WATER DEPTH (m.)	
11. COLOR	

12. ODR	
13. MET DENSITY (1b, 1b ²)	
14. RIGIDITY (cm)	
15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)	

19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. -2 _φ (φ)		0 ₂	
b. -2 _φ to -1 _φ (φ)	6	31	0 ₂
c. -1 _φ to 0 _φ (φ)	3	6.65	MS 7.30
d. 0 _φ to 1 _φ (φ)	2	0 ₁ 4.77	0 ₁ 5.25
e. 1 _φ to 2 _φ (φ)	2	0 ₂	0 ₂ 9.00
f. 2 _φ to 3 _φ (φ)	3	1	9
g. 3 _φ to 4 _φ (φ)	3	1	3
h. 4 _φ to 5 _φ (φ)	23	12	21
i. 5 _φ to 6 _φ (φ)	29	24	28
j. 6 _φ to 7 _φ (φ)	29	28	37

20. SUBSAMPLE DRY WEIGHT (gm)	29.45
21. SPECIFIC GRAVITY	
22. PLASTICITY (mm)	High
23. LIQUID-LIMIT (mm) Shell Cn	0
24. SHALTY MINERAL (%)	
25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)	

27. REMARKS: Items 11-26 determined in the lab
* The sample contained MINERALS BLACK STREMS.
* The sample was a BLUE layer.
* The sample contained a BLUE layer.

Sediment Type	Clayey Silt
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1. SAMPLE NUMBER	66-190-1 : CONTINUED	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3649 *		3651 *
10. SUBSAMPLE DEPTH IN CORE (m.)	5.5 - 10	13 - 15	15 - 15.5
11. COLOR	Medium Dark Gray (SV #1), M4	Medium Dark Gray (SV #1), M4	Black M-1, and Dark Gray M3
12. DOOR			
13. WET DENSITY (lb./ft. ³)			
14. RICHNESS (mm)			
15. MAXIMUM PROBABILITY (%)			
16. MINIMUM PROBABILITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SITE ANALYSIS AND STATISTICAL MEASURES			
a. $\bar{x}_1, \bar{x}_2, \dots$	\bar{x}_1	\bar{x}_2	\bar{x}_3
b. $\bar{x}_1, \bar{x}_2, \dots$	\bar{x}_1	\bar{x}_2	\bar{x}_3
c. $\bar{x}_1, \bar{x}_2, \dots$	\bar{x}_1	\bar{x}_2	\bar{x}_3
d. $\bar{x}_1, \bar{x}_2, \dots$	\bar{x}_1	\bar{x}_2	\bar{x}_3
e. $\bar{x}_1, \bar{x}_2, \dots$	\bar{x}_1	\bar{x}_2	\bar{x}_3
f. $\bar{x}_1, \bar{x}_2, \dots$	\bar{x}_1	\bar{x}_2	\bar{x}_3
g. $\bar{x}_1, \bar{x}_2, \dots$	\bar{x}_1	\bar{x}_2	\bar{x}_3
h. $\bar{x}_1, \bar{x}_2, \dots$	\bar{x}_1	\bar{x}_2	\bar{x}_3
i. $\bar{x}_1, \bar{x}_2, \dots$	\bar{x}_1	\bar{x}_2	\bar{x}_3
j. $\bar{x}_1, \bar{x}_2, \dots$	\bar{x}_1	\bar{x}_2	\bar{x}_3
10. SUBSAMPLE DRY WEIGHT (gm)	33.20	35.44	45.08
21. SPECIFICITY (w/w)			
22. PLASTICITY	High	High	High
23. SHEAR STRESS (Shear Stress)	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:	0" submergible 18" x 18" x 4" covered w/ gravel green clay. 0-21" clayey silt w/ black layer. 2-3" hard clay layer		

Equipment Type	Core Silt	Core Silt	Core Silt	Core Silt
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1. SAMPLE NUMBER	66-190-1 : CONTINUED	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3652		3654
10. SUBSAMPLE DEPTH IN CORE (m.)	15.5 - 19	19 - 21	21 - 23
11. COLOR	Dark Gray M3 AND Black M1	Blue Gray (SV#4) Medium Dark Gray M4	Dark Gray M3
12. DOOR			
13. WET DENSITY (lb./ft. ³)			
14. RICHNESS (mm)			
15. MAXIMUM PROBABILITY (%)			
16. MINIMUM PROBABILITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SITE ANALYSIS AND STATISTICAL MEASURES			
a. $\bar{x}_1, \bar{x}_2, \dots$	\bar{x}_1	\bar{x}_2	\bar{x}_3
b. $\bar{x}_1, \bar{x}_2, \dots$	\bar{x}_1	\bar{x}_2	\bar{x}_3
c. $\bar{x}_1, \bar{x}_2, \dots$	\bar{x}_1	\bar{x}_2	\bar{x}_3
d. $\bar{x}_1, \bar{x}_2, \dots$	\bar{x}_1	\bar{x}_2	\bar{x}_3
e. $\bar{x}_1, \bar{x}_2, \dots$	\bar{x}_1	\bar{x}_2	\bar{x}_3
f. $\bar{x}_1, \bar{x}_2, \dots$	\bar{x}_1	\bar{x}_2	\bar{x}_3
g. $\bar{x}_1, \bar{x}_2, \dots$	\bar{x}_1	\bar{x}_2	\bar{x}_3
h. $\bar{x}_1, \bar{x}_2, \dots$	\bar{x}_1	\bar{x}_2	\bar{x}_3
i. $\bar{x}_1, \bar{x}_2, \dots$	\bar{x}_1	\bar{x}_2	\bar{x}_3
j. $\bar{x}_1, \bar{x}_2, \dots$	\bar{x}_1	\bar{x}_2	\bar{x}_3
10. SUBSAMPLE DRY WEIGHT (gm)	31.19	37.27	40.75
21. SPECIFICITY (w/w)			
22. PLASTICITY	High	High	High
23. SHEAR STRESS (Shear Stress)	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:	4-5" Fine sand & silt. 10-18" Hard clay lumps & shls. 19-21" Sand & silt.		

Equipment Type	Core Silt	Core Silt	Core Silt	Core Silt
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66-190-1 CONTINUED				5. SAMPLER TYPE			
2. LATITUDE				5. WATER DEPTH (m.)			
3. LONGITUDE				7. CORE LENGTH (m.)			
4. DATE (day, month, year)				8. CORE PENETRATION (m.)			
9. LABORATORY NUMBERS	3656 *	3657 *	3658 *	3659 *			
10. SUBSAMPLE DEPTH IN CORE (m.)	41-42	46-48	60-62	73-74			
11. COLOR	Dark Gray M.S.	Medium Dark Gray M4	Medium Dark Gray M4	Medium Dark Gray M4			
12. UOOR							
13. WET DENSITY (lb./ft. ³)							
14. RIGIDNESS (cm)							
15. MAXIMUM POROSITY (%)							
16. MINIMUM POROSITY (%)							
17. WATER CONTENT (%)							
18. ORGANIC CARBON CONTENT (%)							
19. SIZE ANALYSIS AND STATISTICAL MEASURES							
a. -2, (s)	10 ₂	10 ₂	10 ₂	10 ₂			
b. -2, to -1, (s)	SR ₂	SR ₂	SR ₂	SR ₂			
c. -1, to 0, (s)	ME ₂	ME ₂	ME ₂	ME ₂			
d. 0, to 1, (s)	10 ₁	10 ₁	10 ₁	10 ₁			
e. 1, to 2, (s)	10 ₂	10 ₂	10 ₂	10 ₂			
f. 2, to 3, (s)	3	6	13	13			
g. 3, to 4, (s)	3	6	6	9			
h. 4, to 5, (s)	21	20	21	17			
i. 5, to 6, (s)	39	31	30	21			
j. 6, to 7, (s)	36	36	33	24			
20. SUBSAMPLE DRY WEIGHT (gm)	33.56	42.96	32.98	29.61			
21. SPECIFIC (dry)	High	High	High	High			
22. MINIMUM PLASTICITY	High	High	High	High			
23. MINIMUM PLASTICITY	0	0	0	0			
24. UNIFORM MINERAL (%)							
25. SECONDARY MINERAL (%)							
26. OTHER MINERALS (%)							
27. REMARKS:							
21-29" clay w/ black layers - sharp boundary at base, gradual in at top. Fraction of mch to 20 lands; some of lighter areas gr. finer than black.							
SEDIMENT TYPE				Silty Mud			

66-190-1 CONTINUED				5. SAMPLER TYPE			
2. LATITUDE				5. WATER DEPTH (m.)			
3. LONGITUDE				7. CORE LENGTH (m.)			
4. DATE (day, month, year)				8. CORE PENETRATION (m.)			
9. LABORATORY NUMBERS	3660	3661	3662	3663			
10. SUBSAMPLE DEPTH IN CORE (m.)	74-77	74-77	74-77	74-77			
11. COLOR	Medium Dark Gray M4	Medium Dark Gray M4	Medium Dark Gray M4	Medium Dark Gray M4			
12. UOOR							
13. WET DENSITY (lb./ft. ³)							
14. RIGIDNESS (cm)							
15. MAXIMUM POROSITY (%)							
16. MINIMUM POROSITY (%)							
17. WATER CONTENT (%)							
18. ORGANIC CARBON CONTENT (%)							
19. SIZE ANALYSIS AND STATISTICAL MEASURES							
a. -2, (s)	10 ₂	10 ₂	10 ₂	10 ₂			
b. -2, to -1, (s)	SR ₂	SR ₂	SR ₂	SR ₂			
c. -1, to 0, (s)	ME ₂	ME ₂	ME ₂	ME ₂			
d. 0, to 1, (s)	10 ₁	10 ₁	10 ₁	10 ₁			
e. 1, to 2, (s)	6	6	6	6			
f. 2, to 3, (s)	11	11	11	11			
g. 3, to 4, (s)	7	7	7	7			
h. 4, to 5, (s)	17	17	17	17			
i. 5, to 6, (s)	26	26	26	26			
j. 6, to 7, (s)	32	32	32	32			
20. SUBSAMPLE DRY WEIGHT (gm)	44.73	44.73	44.73	44.73			
21. SPECIFIC (dry)	High	High	High	High			
22. MINIMUM PLASTICITY	High	High	High	High			
23. MINIMUM PLASTICITY	0	0	0	0			
24. UNIFORM MINERAL (%)							
25. SECONDARY MINERAL (%)							
26. OTHER MINERALS (%)							
27. REMARKS:							
37-77" Same as 21-39 but siltier & bedding appears to be graded. Some sandy layers at 65-68" w/ 4" of # 20-50 = sample of fines. 3 at graded # 36-50 = sample of coarse M.S. bedding							
SEDIMENT TYPE				Silty Mud			

1. SAMPLE NUMBER	66-191-1	SAMPLER TYPE	Kullenberg
2. LATITUDE	44° 06' 01"	3. WATER DEPTH (m.)	35.0
3. LONGITUDE	69° 01' 01"	4. CORE LENGTH (m.)	116.0
4. DATE (day, month, year)	1 October 1959	5. CORE PENETRATION (m.)	?
6. LABORATORY NUMBERS	4009	7. LABORATORY NUMBERS	4010
8. SUBSAMPLE DEPTH IN CORE (m.)	0-8	9. SUBSAMPLE DEPTH IN CORE (m.)	30-32
10. COLOR	Olive Gray	11. COLOR	Olive Gray
12. OTHER	519/2	13. OTHER	519/1
14. RIGIDITY (cm)		15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		19. SIZE ANALYSIS AND STATISTICAL MEASURES	
20. SUBSAMPLE DRY WEIGHT (gm)	19.65	21. SPECIFICITY (g/cc)	1.936
22. PLASTICITY	High	23. SHALLO-TEST-TO-DEEP-TEST RATIO	High
24. DOMINANT MINERAL (%)		25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)		27. REMARKS	Bottom 20 inches were loose and unconsolidated. Shells were scattered throughout the core. Dark streaks were scattered throughout the core and especially in first 16 inches.

1. SAMPLE NUMBER	66-191-1	SAMPLER TYPE	
2. LATITUDE		3. WATER DEPTH (m.)	
3. LONGITUDE		4. CORE LENGTH (m.)	
4. DATE (day, month, year)		5. CORE PENETRATION (m.)	
6. LABORATORY NUMBERS	4013	7. LABORATORY NUMBERS	4014
8. SUBSAMPLE DEPTH IN CORE (m.)	72-74	9. SUBSAMPLE DEPTH IN CORE (m.)	94-96
10. COLOR	Olive Gray	11. COLOR	Olive Gray
12. OTHER	519/1	13. OTHER	519/1
14. RIGIDITY (cm)		15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		19. SIZE ANALYSIS AND STATISTICAL MEASURES	
20. SUBSAMPLE DRY WEIGHT (gm)	10.63	21. SPECIFICITY (g/cc)	1.936
22. PLASTICITY	High	23. SHALLO-TEST-TO-DEEP-TEST RATIO	High
24. DOMINANT MINERAL (%)		25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)		27. REMARKS	Bottom 20 inches were loose and unconsolidated. Shells were scattered throughout the core. Dark streaks were scattered throughout the core and especially in first 16 inches.

1. SAMPLE NUMBER	66-193-1	5. SAMPLER TYPE	KULLENBERG
2. LATITUDE	09 25.5 N	5. WATER DEPTH (m.)	27.9
3. LONGITUDE	69 01 20 W	7. CORE LENGTH (m.)	12
4. DATE (YY, MO, DAY, YEAR)	OCTOBER 1959	8. CORE PENETRATION (m.)	144
9. LABORATORY NUMBER	3723	9.2A	3724
10. BUDDENBACH DEPTH IN CORE (cm.)	0-2	9.2B	12-14
11. CORE	DRIFT BEACH (# 48 42)	DRIFT KILMAN BEACH (10 NR 42)	DRIFT KILMAN BEACH (10 NR 42)
12. CORE			
13. MET DENSITY (lb./ft. ³)			
14. KIDDOGE (cm)			
15. WATSON PROSODY (2)			
16. WATSON PROSODY (3)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. DATA AND STATISTICAL VALUES			
20. SUBSAMPLE DRY WEIGHT (g)	18.7	20.42	19.1
21. SPECIFIC GRAVITY			
22. HATCHER	High	High	High
23. SHELL	0	0	0
24. SHELL	0	0	0
25. SHELL	0	0	0
26. SHELL	0	0	0
27. REMARKS	1959 11-24 DETERMINED IN THE LAB		
28. REMARKS	THE LAST TWO MONES OF THE CORE WERE VERY FINE AND CONTAINED NUMEROUS SMALL STREAMS		
29. REMARKS	A FEW SHELLS SCATTERED THROUGHOUT THE CORE.		
30. REMARKS	CORE CAPTURED		
31. REMARKS	COPIES SENT		
32. REMARKS	COPIES SENT		
33. REMARKS	COPIES SENT		
34. REMARKS	COPIES SENT		
35. REMARKS	COPIES SENT		
36. REMARKS	COPIES SENT		
37. REMARKS	COPIES SENT		
38. REMARKS	COPIES SENT		
39. REMARKS	COPIES SENT		
40. REMARKS	COPIES SENT		
41. REMARKS	COPIES SENT		
42. REMARKS	COPIES SENT		
43. REMARKS	COPIES SENT		
44. REMARKS	COPIES SENT		
45. REMARKS	COPIES SENT		
46. REMARKS	COPIES SENT		
47. REMARKS	COPIES SENT		
48. REMARKS	COPIES SENT		
49. REMARKS	COPIES SENT		
50. REMARKS	COPIES SENT		
51. REMARKS	COPIES SENT		
52. REMARKS	COPIES SENT		
53. REMARKS	COPIES SENT		
54. REMARKS	COPIES SENT		
55. REMARKS	COPIES SENT		
56. REMARKS	COPIES SENT		
57. REMARKS	COPIES SENT		
58. REMARKS	COPIES SENT		
59. REMARKS	COPIES SENT		
60. REMARKS	COPIES SENT		
61. REMARKS	COPIES SENT		
62. REMARKS	COPIES SENT		
63. REMARKS	COPIES SENT		
64. REMARKS	COPIES SENT		
65. REMARKS	COPIES SENT		
66. REMARKS	COPIES SENT		
67. REMARKS	COPIES SENT		
68. REMARKS	COPIES SENT		
69. REMARKS	COPIES SENT		
70. REMARKS	COPIES SENT		
71. REMARKS	COPIES SENT		
72. REMARKS	COPIES SENT		
73. REMARKS	COPIES SENT		
74. REMARKS	COPIES SENT		
75. REMARKS	COPIES SENT		
76. REMARKS	COPIES SENT		
77. REMARKS	COPIES SENT		
78. REMARKS	COPIES SENT		
79. REMARKS	COPIES SENT		
80. REMARKS	COPIES SENT		
81. REMARKS	COPIES SENT		
82. REMARKS	COPIES SENT		
83. REMARKS	COPIES SENT		
84. REMARKS	COPIES SENT		
85. REMARKS	COPIES SENT		
86. REMARKS	COPIES SENT		
87. REMARKS	COPIES SENT		
88. REMARKS	COPIES SENT		
89. REMARKS	COPIES SENT		
90. REMARKS	COPIES SENT		
91. REMARKS	COPIES SENT		
92. REMARKS	COPIES SENT		
93. REMARKS	COPIES SENT		
94. REMARKS	COPIES SENT		
95. REMARKS	COPIES SENT		
96. REMARKS	COPIES SENT		
97. REMARKS	COPIES SENT		
98. REMARKS	COPIES SENT		
99. REMARKS	COPIES SENT		
100. REMARKS	COPIES SENT		

1. SAMPLE NUMBER	66-193-1 / 7040000	5. SAMPLER TYPE
2. LATITUDE		
3. LONGITUDE		
4. DATE (day, month, year)		
5. LABORATORY NUMBERS	3727	3728
6. SUBSAMPLE DEPTH IN CORE (in.)	82-84	104-106
7. WATER CONTENT (%)		
8. CORE PERCENTAGE (in.)		
9. COLOR	Dark brownish gray (10B-10)	Dark brownish gray (10B-10)
10. DOR		
11. MET DENSITY (lb./ft ³)		
12. PORE DENSITY (lb./ft ³)		
13. MAXIMUM PROBABILITY (%)		
14. MINIMUM PROBABILITY (%)		
15. WATER CONTENT (%)		
16. ORGANIC CARBON CONTENT (%)		
17. SIZE ANALYSIS AND STATISTICAL MEASURES		
18. d_{10} to d_{60} (mm)		
19. d_{10} to d_{60} (mm)		
20. SUBSAMPLE DRY WEIGHT (lb.)		
21. SPECIFICITY (lb./lb.)		
22. Plasticity Plasticity		
23. Shrinkage Shrinkage		
24. DOMINANT MINERAL (%)		
25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)		
27. REMARKS:		

1. SAMPLE NUMBER	66-194-1	5. SAMPLER TYPE	KULLENBERG
2. LATITUDE	44 11 02 N	5. WATER DEPTH (m.)	320
3. LONGITUDE	69 00 59 W	7. CORE LENGTH (m.)	85
4. DATE (day, month, year)	1 October 1959	8. CORE PENETRATION (m.)	144
9. LABORATORY NUMBERS	3679	3679	3680
10. SUBSAMPLE DEPTH IN CORE (m.)	1-2	19-21	48-50
11. COLOR	OLIVE GRAY (5Y 5/2)	OLIVE GRAY (5Y 5/2)	OLIVE GRAY (5Y 5/2)
12. COLOR			
13. WET DENSITY (lb./ft ³)			
14. RIGIDITY (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. -2.5 (φ)	10 ₂	10 ₂	10 ₂
b. -2.5 to -1.5 (φ)	3F	3F	3F
c. -1.5 to 0 (φ)	ME. 8.75	ME. 8.63	ME. 8.94
d. 0 to 1.5 (φ)	01. 7.10	01. 7.01	01. 7.25
e. 1.5 to 2.5 (φ)	03.	03.	03.
f. 2.5 to 3.5 (φ)			
g. 3.5 to 4.5 (φ)	12	12	11
h. 4.5 to 5.5 (φ)	41	39	39
i. 5.5 to 6.5 (φ)	46	46	49
j. 6.5 to 7.5 (φ)	1844	20.98	25.31
20. SUBSAMPLE DRY WEIGHT (gm)			1783
21. SPECIFIC GRAVITY			
22. MINIMUM PLASTICITY	High	High	High
23. MINIMUM PLASTICITY	0	2.7%	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:	ITEMS 11-26 DETERMINED IN PMS 128		
	THE CORE CONTAINED THIN DARK LAYERS AT 74 INCHES, + at 0-4"		
	Shell scattered along bottom core.		
SEDIMENT TYPE	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT

1. SAMPLE NUMBER	66-194-1	5. SAMPLER TYPE	
2. LATITUDE		5. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS			
10. SUBSAMPLE DEPTH IN CORE (m.)			
11. COLOR			
12. COLOR			
13. WET DENSITY (lb./ft ³)			
14. RIGIDITY (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. -2.5 (φ)	10 ₂	10 ₂	10 ₂
b. -2.5 to -1.5 (φ)	3F	3F	3F
c. -1.5 to 0 (φ)	ME. 8.93	ME.	ME.
d. 0 to 1.5 (φ)	Trace	01. 7.10	01.
e. 1.5 to 2.5 (φ)	03.	03.	03.
f. 2.5 to 3.5 (φ)			
g. 3.5 to 4.5 (φ)			
h. 4.5 to 5.5 (φ)	11		
i. 5.5 to 6.5 (φ)	40		
j. 6.5 to 7.5 (φ)	48		
20. SUBSAMPLE DRY WEIGHT (gm)			
21. SPECIFIC GRAVITY			
22. MINIMUM PLASTICITY	High		
23. MINIMUM PLASTICITY	0		
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:			
SEDIMENT TYPE	CLAYEY SILT		

1. SAMPLE NUMBER	66-195-1	5. SAMPLER TYPE	KILLEBERG
2. LATITUDE	44° 12' 27" N	6. WATER DEPTH (m.)	43.0
3. LONGITUDE	69° 01' 04" W	7. CORE LENGTH (m.)	1.9
4. DATE (day, month, year)	October 1969	8. CORE PRECIPITATION (m.)	144
9. LABORATORY NUMBERS	3697	9. LABORATORY NUMBERS	3699
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2	10. SUBSAMPLE DEPTH IN CORE (m.)	21-22
11. COLOR	Dark Gray (5-Y 4/1)	11. COLOR	Dark Yellowish Brown (10 YR 4/2)
12. DOOR		12. DOOR	
13. NET DENSITY (lb./ft ³)		13. NET DENSITY (lb./ft ³)	
14. RIGIDITY (cm)		14. RIGIDITY (cm)	
15. MAXIMUM POROSITY (%)		15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2 ₅ (φ)	0 ₂	10 ₂	0 ₂
b. < 2 ₅ to < 1 ₅ (φ)	5 ₂	5 ₂	5 ₂
c. < 1 ₅ to 0 ₁ (φ)	Med. 8.85	Med. 9.00	Med. 9.10
d. 0 ₁ to 1 ₅ (φ)	1	0 ₁ 7.35	0 ₁ 7.21
e. > 1 ₅ to 2 ₅ (φ)	0 ₂	0 ₂	0 ₂
f. > 2 ₅ to 3 ₅ (φ)			
g. > 3 ₅ to 4 ₅ (φ)	10	10	9
h. > 4 ₅ to 6 ₅ (φ)	40	38	39
i. > 6 ₅ to 8 ₅ (φ)	49	51	50
j. > 8 ₅ (φ)			
20. SUBSAMPLE DRY WEIGHT (gm)	12.7	21.22	15.05
21. SPECIFIC GRAVITY			25.57
22. Plasticity Plasticity	Med.	Med.	Med.
23. Shrinkage Shrinkage	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:	ITEMS 11-22 DETERMINED IN THE LAB SHELL SPLITTED THROUGHOUT CORE 0-4". DARK LAYERS.		
SEAWATER TYPE	SWAY CLAY	SWAY CLAY	SWAY SLT

1. SAMPLE NUMBER	66-195-1	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PRECIPITATION (m.)	
9. LABORATORY NUMBERS	3701	9. LABORATORY NUMBERS	3702
10. SUBSAMPLE DEPTH IN CORE (m.)	94-96	10. SUBSAMPLE DEPTH IN CORE (m.)	117-119
11. COLOR	Dark Yellowish Brown (10 YR 4/2)	11. COLOR	Dark Yellowish Brown (10 YR 4/2)
12. DOOR		12. DOOR	
13. NET DENSITY (lb./ft ³)		13. NET DENSITY (lb./ft ³)	
14. RIGIDITY (cm)		14. RIGIDITY (cm)	
15. MAXIMUM POROSITY (%)		15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2 ₅ (φ)	0 ₂	10 ₂	0 ₂
b. < 2 ₅ to < 1 ₅ (φ)	5 ₂	5 ₂	5 ₂
c. < 1 ₅ to 0 ₁ (φ)	Med. 9.00	Med. 8.87	Med. 8.87
d. 0 ₁ to 1 ₅ (φ)	1	0 7.41	0 7.31
e. > 1 ₅ to 2 ₅ (φ)	0 ₂	0 ₂	0 ₂
f. > 2 ₅ to 3 ₅ (φ)			
g. > 3 ₅ to 4 ₅ (φ)	9	10	10
h. > 4 ₅ to 6 ₅ (φ)	40	41	41
i. > 6 ₅ to 8 ₅ (φ)	51	49	49
j. > 8 ₅ (φ)			
20. SUBSAMPLE DRY WEIGHT (gm)	22.34	16.42	16.42
21. SPECIFIC GRAVITY			
22. Plasticity Plasticity	Med.	Med.	Med.
23. Shrinkage Shrinkage	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:			
SEAWATER TYPE	SWAY CLAY	SWAY SLT	SWAY SLT

1. SAMPLE NUMBER	66-196-1	5. SAMPLER TYPE	KULLENBERG
2. LATITUDE	44 13 N	6. WATER DEPTH (m.)	36.9
3. LONGITUDE	69 01 W	7. CORE LENGTH (m.)	120
4. CORE PENETRATION (m.)	195.9	8. CORE PERCENTAGE (%)	144
9. LABORATORY NUMBERS	3536	9. LABORATORY NUMBERS	3538
10. SUBSAMPLING DEPTH IN CORE (m.)	0-2	10. SUBSAMPLING DEPTH IN CORE (m.)	21-23
11. COLOR	OLIVE BLACK * 5Y 2/1 FOUL	11. COLOR	OLIVE GRAY 5Y 4/1 58Y 5/6
12. MOOR		12. MOOR	
13. WET DENSITY (lb./ft ³)		13. WET DENSITY (lb./ft ³)	
14. FLUID DENSITY (m)		14. FLUID DENSITY (m)	
15. WATHEM PROSISTY (%)		15. WATHEM PROSISTY (%)	
16. MUDHUM PROSISTY (%)		16. MUDHUM PROSISTY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES		19. SIZE ANALYSIS AND STATISTICAL MEASURES	
20. SUBSAMPLING DRY WEIGHT (m)	21.2-1	20. SUBSAMPLING DRY WEIGHT (m)	18.39
21. SPECIFIC GRAVITY	High	21. SPECIFIC GRAVITY	High
22. MINERALOGY	Plasticity	22. MINERALOGY	Plasticity
23. MINERALOGY	0	23. MINERALOGY	0
24. MINERALOGY	0	24. MINERALOGY	0
25. SECONDARY MINERAL (%)		25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)		26. OTHER MINERALS (%)	
27. REMARKS	11-26 DETERMINED IN THE LAB. * CONTAINED DARK STREAKS 0-2" CLAY w/ black layers. 2-23" CLAY	27. REMARKS	23-120" Clay w/ scattered shell & worm holes. Color changes at 39", 54", 75", 99" 68" Black lens.
SEDIMENT TYPE	CLAYEY SILT	SEDIMENT TYPE	CLAYEY SILT

1. SAMPLE NUMBER	66-196-1	5. SAMPLER TYPE	CONTINUED
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. CORE PENETRATION (m.)		8. CORE PERCENTAGE (%)	
9. LABORATORY NUMBERS	3540	9. LABORATORY NUMBERS	3542
10. SUBSAMPLING DEPTH IN CORE (m.)	39-41	10. SUBSAMPLING DEPTH IN CORE (m.)	61-63
11. COLOR	GRAYISH OLIVE * 10Y 4/1	11. COLOR	GRAYISH OLIVE GREEN * 58Y 3/2
12. MOOR		12. MOOR	
13. WET DENSITY (lb./ft ³)		13. WET DENSITY (lb./ft ³)	
14. FLUID DENSITY (m)		14. FLUID DENSITY (m)	
15. WATHEM PROSISTY (%)		15. WATHEM PROSISTY (%)	
16. MUDHUM PROSISTY (%)		16. MUDHUM PROSISTY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES		19. SIZE ANALYSIS AND STATISTICAL MEASURES	
20. SUBSAMPLING DRY WEIGHT (m)	15.81	20. SUBSAMPLING DRY WEIGHT (m)	2.2.17
21. SPECIFIC GRAVITY	High	21. SPECIFIC GRAVITY	High
22. MINERALOGY	Plasticity	22. MINERALOGY	Plasticity
23. MINERALOGY	0	23. MINERALOGY	0
24. MINERALOGY	0	24. MINERALOGY	0
25. SECONDARY MINERAL (%)		25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)		26. OTHER MINERALS (%)	
27. REMARKS	23-120" Clay w/ scattered shell & worm holes. Color changes at 39", 54", 75", 99" 68" Black lens.	27. REMARKS	
SEDIMENT TYPE	SILTY CLAY	SEDIMENT TYPE	SILTY CLAY

1. SAMPLE NUMBER	66-196-1 CONTINUED	5. SAMPLE TYPE	
2. LATITUDE		5. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (Day, Month, Year)		8. CORE PREPARATION	
9. LABORATORY NUMBERS	3544	3545	
10. SUBSAMPLE DEPTH IN CORE (m.)	9A-9B	11B-120	
11. COLOR	Grayish Olive Green	5S Y 3/4	
12. DOOR			
13. NET DENSITY (lb./ft. ³)			
14. RIGIDITY (mm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. ϕ_{20} (%)	100	01	00
b. ϕ_{10} to ϕ_{20} (%)	99	50	30
c. ϕ_{10} to ϕ_{20} (%)	99	50	30
d. ϕ_{10} to ϕ_{20} (%)	99	50	30
e. ϕ_{10} to ϕ_{20} (%)	99	50	30
f. ϕ_{10} to ϕ_{20} (%)	99	50	30
g. ϕ_{10} to ϕ_{20} (%)	99	50	30
h. ϕ_{10} to ϕ_{20} (%)	99	50	30
i. ϕ_{10} to ϕ_{20} (%)	99	50	30
j. ϕ_{10} to ϕ_{20} (%)	99	50	30
20. SUBSAMPLE DRY WEIGHT (mg)	24.18	15.70	
21. SPECIFICITY (mg.)			
22. REMARKS: Plasticity High			
23. Plasticity Plasticity			
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:			

1. SAMPLE NUMBER	66-197-1	5. SAMPLE TYPE	
2. LATITUDE	44 06 57 N	5. WATER DEPTH (m.)	
3. LONGITUDE	69 03 18 W	7. CORE LENGTH (m.)	
4. DATE (Day, Month, Year)	8 October 1959	8. CORE PREPARATION	
9. LABORATORY NUMBERS			
10. SUBSAMPLE DEPTH IN CORE (m.)	18.2		
11. COLOR	Dark Yellowish Brown		
12. DOOR			
13. NET DENSITY (lb./ft. ³)			
14. RIGIDITY (mm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. ϕ_{20} (%)	00	00	00
b. ϕ_{10} to ϕ_{20} (%)	1	30	40.80
c. ϕ_{10} to ϕ_{20} (%)	1	30	40.80
d. ϕ_{10} to ϕ_{20} (%)	2	01	3.80
e. ϕ_{10} to ϕ_{20} (%)	3	01	3.80
f. ϕ_{10} to ϕ_{20} (%)	7		
g. ϕ_{10} to ϕ_{20} (%)	15		
h. ϕ_{10} to ϕ_{20} (%)	20		
i. ϕ_{10} to ϕ_{20} (%)	21		
j. ϕ_{10} to ϕ_{20} (%)	26		
20. SUBSAMPLE DRY WEIGHT (mg)	14.10		
21. SPECIFICITY (mg.)			
22. REMARKS: Plasticity Med.			
23. Plasticity Plasticity			
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS: Items 11-26 determined in the lab			

Sediment Type	Silty Mud
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1. SAMPLE NUMBER	66-190-1	5. SAMPLER TYPE	KULLENBERG
2. LATITUDE	44° 23' 31"	6. WATER DEPTH (m.)	9.2
3. LONGITUDE	68° 57' 08"	7. CORE LENGTH (m.)	107
4. DATE (Day, month, year)	8 OCT. 1959	8. CORE PENETRATION (m.)	156
5. LABORATORY NUMBERS	3605 *	9. LABORATORY NUMBER	3608 *
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2	10. SUBSAMPLE DEPTH IN CORE (m.)	13-15
11. COLOR	DARK GREENISH GRAY 5814/1	11. COLOR	OLIVE GRAY 5Y 4/1
12. DOOR		12. DOOR	
13. WET DENSITY (lb./ft ³)		13. WET DENSITY (lb./ft ³)	
14. FUGIDENSE (cm)		14. FUGIDENSE (cm)	
15. MAXIMUM PROSITY (%)		15. MAXIMUM PROSITY (%)	
16. MINIMUM PROSITY (%)		16. MINIMUM PROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. -2 ₅ (%)	0 ₅	10 ₅	0 ₅
b. -2 ₅ to -1 ₅ (%)	5 ₅	10 ₅	5 ₅
c. -1 ₅ to 0 ₅ (%)	Mc 893	Mc 894	Mc 896
d. 0 ₅ to 1 ₅ (%)	0 ₅ 7.22	0 ₅ 7.22	0 ₅ 7.30
e. 1 ₅ to 2 ₅ (%)	1	1	Trace
f. 2 ₅ to 3 ₅ (%)			
g. 3 ₅ to 4 ₅ (%)			
h. 4 ₅ to 5 ₅ (%)	9	9	9
i. 5 ₅ to 6 ₅ (%)	41	41	42
j. 6 ₅ to 7 ₅ (%)	49	49	48
k. 7 ₅ to 8 ₅ (%)			
l. 8 ₅ to 9 ₅ (%)	1790	1657	2112
20. SUBSAMPLE DRY WEIGHT (m)			1880
21. SPECIFIC (w/v)			
22. Plasticity Plasticity	High	High	High
23. Shrinkage Shrinkage	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS: ITEMS 11-26 DETERMINED IN THE LAB.			
NUMEROUS DARK AREAS PROBABLY DUE TO ORGANIC MATERIAL GREEN STICKY AND MANY SMALL PIECES OF WOOD FOUND BETWEEN 51 AND 53 INCHES LAST THREE INCHES DARKER AND SOFTER.			
* DARK STREAKS			
SEDIMENT TYPE CLAYEY SILT CLAYEY SILT SILTY CLAY CLAYEY SILT			

1. SAMPLE NUMBER	66-198-1	5. SAMPLER TYPE	CONTINUOUS
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (Day, month, year)		8. CORE PENETRATION (m.)	
5. LABORATORY NUMBERS	3609	9. LABORATORY NUMBER	3611
10. SUBSAMPLE DEPTH IN CORE (m.)	24-26	10. SUBSAMPLE DEPTH IN CORE (m.)	49-51
11. COLOR	PALE BROWN OLIVE GRAY 5Y 6/1	11. COLOR	DARK GREENISH OLIVE GRAY 5Y 4/1
12. DOOR		12. DOOR	
13. WET DENSITY (lb./ft ³)		13. WET DENSITY (lb./ft ³)	
14. FUGIDENSE (cm)		14. FUGIDENSE (cm)	
15. MAXIMUM PROSITY (%)		15. MAXIMUM PROSITY (%)	
16. MINIMUM PROSITY (%)		16. MINIMUM PROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. -2 ₅ (%)	0 ₅	10 ₅	0 ₅
b. -2 ₅ to -1 ₅ (%)	5 ₅	10 ₅	5 ₅
c. -1 ₅ to 0 ₅ (%)	Mc 900	Mc 893	Mc 881
d. 0 ₅ to 1 ₅ (%)	0 ₅ 7.25	0 ₅ 7.25	0 ₅ 7.12
e. 1 ₅ to 2 ₅ (%)	Trace	Trace	Trace
f. 2 ₅ to 3 ₅ (%)			
g. 3 ₅ to 4 ₅ (%)			
h. 4 ₅ to 5 ₅ (%)	10	9	10
i. 5 ₅ to 6 ₅ (%)	39	40	35
j. 6 ₅ to 7 ₅ (%)	51	49	50
20. SUBSAMPLE DRY WEIGHT (m)	14.42	17.66	15.85
21. SPECIFIC (w/v)			
22. Plasticity Plasticity	High	High	High
23. Shrinkage Shrinkage	0	0	41%
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:			
SEDIMENT TYPE SILTY CLAY SILTY CLAY SILTY CLAY CLAYEY SILT			

1. SAMPLE NUMBER	62-198-1	CONTINUED	5. SAMPLER TYPE	
2. LATITUDE			6. WATER DEPTH (m.)	
3. LONGITUDE			7. CORE LENGTH (m.)	
4. DATE (day, month, year)			8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3613	3614	3615	*
10. SUBSAMPLE DEPTH IN CORE (m.)	72-74	94-96	100-102	
11. COLOR	5Y 4	5Y 4	5Y 4	
12. MOIST				
13. WET DENSITY (kg./cc)				
14. WET DENSITY (kg./cc)				
15. WET DENSITY (kg./cc)				
16. WET DENSITY (kg./cc)				
17. WATER CONTENT (%)				
18. ORGANIC CARBON CONTENT (%)				
19. SIZE ANALYSIS AND STATISTICAL VALUES				
20. SUBSAMPLE DRY WEIGHT (gm)	15.50	17.99	15.90	
21. SPECIFIC GRAVITY				
22. PLASTICITY INDEX	High	High	High	
23. SHREDDER-TESTING (mm. Shell Con.)	41%	41%	41%	
24. DOMINANT MINERAL (%)				
25. SECONDARY MINERAL (%)				
26. OTHER MINERALS (%)				
27. REMARKS:	* Dark brown streaks.			

SECTION TYPE SILTY CLAY CLAYEY SILT SILTY CLAY

1. SAMPLE NUMBER	66-199-1		5. SAMPLER TYPE	Kullenberg
2. LATITUDE	44° 24'	05° N	6. WATER DEPTH (m.)	0.3
3. LONGITUDE	68° 57'	19° W	7. CORE LENGTH (m.)	114
4. DATE (day, month, year)			8. CORE PENETRATION (m.)	156
9. LABORATORY NUMBERS	800-tube 1959			
10. SUBSAMPLE DEPTH IN CORE (m.)	3824	3825	3826	3827
11. COLOR	Olive Gray 5Y 9/2	Olive Gray 5Y 9/2	Olive Gray 5Y 9/2	Olive Gray 5Y 9/2
12. MOIST				
13. WET DENSITY (kg./cc)				
14. WET DENSITY (kg./cc)				
15. WET DENSITY (kg./cc)				
16. WET DENSITY (kg./cc)				
17. WATER CONTENT (%)				
18. ORGANIC CARBON CONTENT (%)				
19. SIZE ANALYSIS AND STATISTICAL VALUES				
20. SUBSAMPLE DRY WEIGHT (gm)	18.57	16.23	16.23	19.13
21. SPECIFIC GRAVITY				
22. PLASTICITY INDEX	High	High	High	High
23. SHREDDER-TESTING (mm. Shell Con.)	0	0	0	0
24. DOMINANT MINERAL (%)				
25. SECONDARY MINERAL (%)				
26. OTHER MINERALS (%)				
27. REMARKS:	Items 11-16 determined in the lab The first 17 inches and the last 2 inches contained dark streaks Color change at 98"			

SECTION TYPE Clayey Silt Clayey Silt Clayey Silt Clayey Silt

1. SAMPLE NUMBER	66-499-1 continued	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
8. DATE (day, month, year)		8. CORE PREPARATION (m.)	
9. LABORATORY NUMBERS	3830	3831	
10. SUBSAMPLE DEPTH IN CORE (m.)	98-100	Grayish Olive Green	
11. COLOR	58/4.2	58/4.2	
12. DOOR			
13. NET DENSITY (m./m ³)			
14. RIGIDITY (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. ϕ_{-20} (%)			
b. ϕ_{-20} to ϕ_{-40} (%)			
c. ϕ_{-40} to ϕ_{-60} (%)			
d. ϕ_{-60} to ϕ_{-80} (%)			
e. ϕ_{-80} to ϕ_{-100} (%)			
f. ϕ_{-100} to ϕ_{-200} (%)			
g. ϕ_{-200} to ϕ_{-400} (%)			
h. ϕ_{-400} to ϕ_{-600} (%)			
i. ϕ_{-600} to ϕ_{-800} (%)			
j. ϕ_{-800} (%)			
20. SUBSAMPLE DRY WEIGHT (gm)			
21. SPHERICITY (avg)			
22. Plasticity Plasticity			
23. Hardness Hardness			
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:			

1. SAMPLE NUMBER	66-200-1	5. SAMPLER TYPE	Kullenberg
2. LATITUDE	44° 24' N	6. WATER DEPTH (m.)	7.0
3. LONGITUDE	57° 10' W	7. CORE LENGTH (m.)	12.9
8. DATE (day, month, year)	8 October 1959	8. CORE PREPARATION (m.)	156
9. LABORATORY NUMBERS	3872	3873	
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2	24-27	
11. COLOR	Gray Green (5Y 3/2)	Gray Green (5Y 4/1)	
12. DOOR			
13. NET DENSITY (m./m ³)			
14. RIGIDITY (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. ϕ_{-20} (%)			
b. ϕ_{-20} to ϕ_{-40} (%)			
c. ϕ_{-40} to ϕ_{-60} (%)			
d. ϕ_{-60} to ϕ_{-80} (%)			
e. ϕ_{-80} to ϕ_{-100} (%)			
f. ϕ_{-100} to ϕ_{-200} (%)			
g. ϕ_{-200} to ϕ_{-400} (%)			
h. ϕ_{-400} to ϕ_{-600} (%)			
i. ϕ_{-600} to ϕ_{-800} (%)			
j. ϕ_{-800} (%)			
20. SUBSAMPLE DRY WEIGHT (gm)			
21. SPHERICITY (avg)			
22. Plasticity Plasticity			
23. Hardness Hardness			
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:			

REMARKS: TERS 11-26 DETERMINED IN THE LAB.
THE CORE CONTAINED A BLACK MATERIAL (HYDROLYZABLE ORGANIC) AT 27 INCHES AND SOME WOODY MATERIAL AT 46 INCHES. SHELL SCATTERED THROUGHOUT CORE.

Sediment Type	Clayey Silt	Clayey Silt	Clayey Silt
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1. SAMPLE NUMBER	65-220-1: GRAYWHD	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (Day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3876		
10. SUBSAMPLE DEPTH IN CORE (m.)	129-126		
11. COLOR	Dark Greenish Gray, (5.6 Y 4.5)		
12. ODR	Foul		
13. MET DENSITY (lb./ft ³)			
14. RIGIDNESS (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. ϕ_{-20} (%)	CO.	00 ₂	00 ₂
b. ϕ_{-40} to ϕ_{-60} (%)	50 ₂	50 ₂	50 ₂
c. ϕ_{-60} to ϕ_{-80} (%)	87 ₂	87 ₂	87 ₂
d. ϕ_{-80} to ϕ_{-100} (%)	01 ₂	01 ₂	01 ₂
e. ϕ_{-100} to ϕ_{-200} (%)	03 ₂	03 ₂	03 ₂
f. ϕ_{-200} to ϕ_{-400} (%)			
g. ϕ_{-400} to ϕ_{-600} (%)	8	11	
h. ϕ_{-600} to ϕ_{-800} (%)	45	44	
i. ϕ_{-800} to ϕ_{-1000} (%)	46	42	
j. ϕ_{-1000} (%)	25.52	21.91	
20. SUBSAMPLE DRY WEIGHT (gm)			
21. SPECIFIC GRAVITY			
22. PLASTICITY (eq.)	High	High	
23. LIQUID LIMIT (mm) Plasticity	0	0	
24. SHrinkage (mm) Liquid Limit			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS			

SEDIMENT TYPE CLAYEY SILT CLAYEY SILT

1. SAMPLE NUMBER	60-201-1	5. SAMPLER TYPE	KULLENBERG
2. LATITUDE	25° 12' N	6. WATER DEPTH (m.)	60
3. LONGITUDE	57° 09' W	7. CORE LENGTH (m.)	68
4. DATE (Day, month, year)	8 October 1959	8. CORE PENETRATION (m.)	72
9. LABORATORY NUMBERS	3513		
10. SUBSAMPLE DEPTH IN CORE (m.)	0-3		
11. COLOR	OLIVE GRAY (5 Y 4/1)		
12. ODR			
13. MET DENSITY (lb./ft ³)			
14. RIGIDNESS (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. ϕ_{-20} (%)	2	00 ₂	4
b. ϕ_{-40} to ϕ_{-60} (%)	2	50 ₂	3
c. ϕ_{-60} to ϕ_{-80} (%)	1	80.8	3
d. ϕ_{-80} to ϕ_{-100} (%)	2	6.24	3
e. ϕ_{-100} to ϕ_{-200} (%)	2	01 ₂	6
f. ϕ_{-200} to ϕ_{-400} (%)	2	03 ₂	3
g. ϕ_{-400} to ϕ_{-600} (%)	3	4	9
h. ϕ_{-600} to ϕ_{-800} (%)	2	3	5
i. ϕ_{-800} to ϕ_{-1000} (%)	8	7	11
j. ϕ_{-1000} (%)	40	36	22
k. ϕ_{-1000} (%)	38	35	21
20. SUBSAMPLE DRY WEIGHT (gm)	1827		1999
21. SPECIFIC GRAVITY			
22. PLASTICITY (eq.)	Med.	Med.	Med.
23. LIQUID LIMIT (mm) Plasticity	0	0	0
24. SHrinkage (mm) Liquid Limit			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS			

ITEMS 11-26 DETERMINED IN THE LAB.
0-3" clayey silt, high water content.
3 1/2" sandy silt + clay layer of greenish silt + pebbles at 20 1/2-21"

SEDIMENT TYPE CLAYEY SILT SILTY MUD SANDY MUD SILTY MUD

1. SAMPLE NUMBER	66-202-1	2. LATITUDE	44° 22'	3. LONGITUDE	68° 55'	4. DATE (DD, MONTH, YEAR)	8 October 1959	5. WATER DEPTH (m.)	18.9	6. CORE LENGTH (m.)	121	7. CORE PENETRATION (m.)	144	8. LABORATORY NUMBERS	4048	9. SUBSAMPLE DEPTH IN CORE (m.)	0-2	10. LABORATORY DEPTH IN CORE (m.)	4049	11. COLOR	Olive Gray	12. OTHER	513/1	13. NET DENSITY (lb./ft ³)	121	14. HGTENSIAT (cm)	4050	15. MAXIMUM POROSITY (%)	8.95	16. MINIMUM POROSITY (%)	7.15	17. WATER CONTENT (%)	39	18. ORGANIC CARBON CONTENT (%)	49	19. SIZE ANALYSIS AND STATISTICAL HEADINGS	9.19	20. REMARKS	Dark streaks in the first 5 inches.
1. SAMPLE NUMBER	66-202-1	2. LATITUDE	44° 22'	3. LONGITUDE	68° 55'	4. DATE (DD, MONTH, YEAR)	8 October 1959	5. WATER DEPTH (m.)	18.9	6. CORE LENGTH (m.)	121	7. CORE PENETRATION (m.)	144	8. LABORATORY NUMBERS	4048	9. SUBSAMPLE DEPTH IN CORE (m.)	0-2	10. LABORATORY DEPTH IN CORE (m.)	4049	11. COLOR	Olive Gray	12. OTHER	513/1	13. NET DENSITY (lb./ft ³)	121	14. HGTENSIAT (cm)	4050	15. MAXIMUM POROSITY (%)	8.95	16. MINIMUM POROSITY (%)	7.15	17. WATER CONTENT (%)	39	18. ORGANIC CARBON CONTENT (%)	49	19. SIZE ANALYSIS AND STATISTICAL HEADINGS	9.19	20. REMARKS	Dark streaks in the first 5 inches.

1. SAMPLE NUMBER	66-202-1	2. LATITUDE	44° 22'	3. LONGITUDE	68° 55'	4. DATE (DD, MONTH, YEAR)	8 October 1959	5. WATER DEPTH (m.)	18.9	6. CORE LENGTH (m.)	121	7. CORE PENETRATION (m.)	144	8. LABORATORY NUMBERS	4048	9. SUBSAMPLE DEPTH IN CORE (m.)	0-2	10. LABORATORY DEPTH IN CORE (m.)	4049	11. COLOR	Olive Gray	12. OTHER	513/1	13. NET DENSITY (lb./ft ³)	121	14. HGTENSIAT (cm)	4050	15. MAXIMUM POROSITY (%)	8.95	16. MINIMUM POROSITY (%)	7.15	17. WATER CONTENT (%)	39	18. ORGANIC CARBON CONTENT (%)	49	19. SIZE ANALYSIS AND STATISTICAL HEADINGS	9.19	20. REMARKS	Dark streaks in the first 5 inches.
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1. SAMPLE NUMBER	66-202-1	2. LATITUDE	44° 22'	3. LONGITUDE	68° 55'	4. DATE (DD, MONTH, YEAR)	8 October 1959	5. WATER DEPTH (m.)	18.9	6. CORE LENGTH (m.)	121	7. CORE PENETRATION (m.)	144	8. LABORATORY NUMBERS	4048	9. SUBSAMPLE DEPTH IN CORE (m.)	0-2	10. LABORATORY DEPTH IN CORE (m.)	4049	11. COLOR	Olive Gray	12. OTHER	513/1	13. NET DENSITY (lb./ft ³)	121	14. HGTENSIAT (cm)	4050	15. MAXIMUM POROSITY (%)	8.95	16. MINIMUM POROSITY (%)	7.15	17. WATER CONTENT (%)	39	18. ORGANIC CARBON CONTENT (%)	49	19. SIZE ANALYSIS AND STATISTICAL HEADINGS	9.19	20. REMARKS	Dark streaks in the first 5 inches.
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1. SAMPLE NUMBER	66-202-1	2. LATITUDE	44° 22'	3. LONGITUDE	68° 55'	4. DATE (DD, MONTH, YEAR)	8 October 1959	5. WATER DEPTH (m.)	18.9	6. CORE LENGTH (m.)	121	7. CORE PENETRATION (m.)	144	8. LABORATORY NUMBERS	4048	9. SUBSAMPLE DEPTH IN CORE (m.)	0-2	10. LABORATORY DEPTH IN CORE (m.)	4049	11. COLOR	Olive Gray	12. OTHER	513/1	13. NET DENSITY (lb./ft ³)	121	14. HGTENSIAT (cm)	4050	15. MAXIMUM POROSITY (%)	8.95	16. MINIMUM POROSITY (%)	7.15	17. WATER CONTENT (%)	39	18. ORGANIC CARBON CONTENT (%)	49	19. SIZE ANALYSIS AND STATISTICAL HEADINGS	9.19	20. REMARKS	Dark streaks in the first 5 inches.
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1. SAMPLE NUMBER	66-202-1	2. LATITUDE	44° 22'	3. LONGITUDE	68° 55'	4. DATE (DD, MONTH, YEAR)	8 October 1959	5. WATER DEPTH (m.)	18.9	6. CORE LENGTH (m.)	121	7. CORE PENETRATION (m.)	144	8. LABORATORY NUMBERS	4048	9. SUBSAMPLE DEPTH IN CORE (m.)	0-2	10. LABORATORY DEPTH IN CORE (m.)	4049	11. COLOR	Olive Gray	12. OTHER	513/1	13. NET DENSITY (lb./ft ³)	121	14. HGTENSIAT (cm)	4050	15. MAXIMUM POROSITY (%)	8.95	16. MINIMUM POROSITY (%)	7.15	17. WATER CONTENT (%)	39	18. ORGANIC CARBON CONTENT (%)	49	19. SIZE ANALYSIS AND STATISTICAL HEADINGS	9.19	20. REMARKS	Dark streaks in the first 5 inches.
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1. SAMPLE NUMBER	60-202-1 continued	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (Day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	4152	4053	4055
10. SUBSAMPLE DEPTH IN CORE (m.)	70-72	94-96	106-108
11. COLOR	Olive Gray 5Y4/1	Olive Gray 5Y4/1	Olive Gray 5Y4/1
12. ODR			
13. WET DENSITY (15, °F/°C)			
14. RIGIDNESS (mm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SITE ANALYSIS AND STATISTICAL VALUES			
20. SUBSAMPLE DRY WEIGHT (gm)	6.88	14.04	8.85
21. SPECIFIC GRAVITY			9.70
22. MINIMUM PLASTICITY	High	High	High
23. MINIMUM PLASTICITY	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS			

Sediment Type Silty Clay Clayey Silt Clayey Silt Clayey Silt

1. SAMPLE NUMBER	60-203-1	5. SAMPLER TYPE	KALEMBERG
2. LATITUDE	44 23 N	6. WATER DEPTH (m.)	22.8
3. LONGITUDE	68 55 W	7. CORE LENGTH (m.)	125
4. DATE (Day, month, year)	8 October 1959	8. CORE PENETRATION (m.)	124
9. LABORATORY NUMBERS	3567	3568	3569
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2	6-8	8-10
11. COLOR	OLIVE GRAY* (5Y 4/1)	OLIVE GRAY* (5Y 4/1)	OLIVE GRAY (5Y 4/1)
12. ODR		FOUL	
13. WET DENSITY (15, °F/°C)			
14. RIGIDNESS (mm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SITE ANALYSIS AND STATISTICAL VALUES			
20. SUBSAMPLE DRY WEIGHT (gm)	13.63	20.21	13.22
21. SPECIFIC GRAVITY			
22. MINIMUM PLASTICITY	High	High	High
23. MINIMUM PLASTICITY	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS			

ITEMS 11-26 DETERMINED IN THE LAB.
THE CORE CONTAINED DARK STREAKS FROM 0'-8" AND 10'-125" AND A DARK layer (1" thick) AT 97"
Shell scattered throughout core.

Sediment Type Clayey Silt Silty Clay Silty Clay Clayey Silt

1. SAMPLE NUMBER	66-203-1	CONTINUED	5. SAMPLER TYPE	
2. LATITUDE			6. WATER DEPTH (m.)	
3. LONGITUDE			7. CORE LENGTH (m.)	
4. DATE (day, month, year)			8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3571	3572	3573	3574
10. SUBSAMPLE DEPTH IN CORE (m.)	66-68	68-70	70-79	97-98
11. COLOR	OLIVE GRAY (5Y 4/1)	GRAYISH OLIVE GREEN (5B 1/2)	OLIVE GRAY (5Y 4/1)	OLIVE GRAY (5Y 4/1)
12. SOOR				
13. WET DENSITY (lb./ft ³)				
14. RIGIDNESS (mm)				
15. MAXIMUM POROSITY (%)				
16. MINIMUM POROSITY (%)				
17. WATER CONTENT (%)				
18. ORGANIC CARBON CONTENT (%)				
19. SIZE ANALYSIS AND STATISTICAL MEASURES				
a. $\Sigma > 2\phi$ (%)	100 _a	100 _a	100 _a	100 _a
b. $> 2\phi$ to -1ϕ (%)	5 _b	5 _b	5 _b	5 _b
c. -1ϕ to 0ϕ (%)	44 _c	44 _c	44 _c	44 _c
d. 0ϕ to 1ϕ (%)	0 _d	0 _d	0 _d	0 _d
e. 1ϕ to 2ϕ (%)	0 _e	0 _e	0 _e	0 _e
f. 2ϕ to 3ϕ (%)	0 _f	0 _f	0 _f	0 _f
g. 3ϕ to 4ϕ (%)	0 _g	0 _g	0 _g	0 _g
h. 4ϕ to 5ϕ (%)	9	10	11	13
i. 5ϕ to 6ϕ (%)	37	38	37	37
j. $> 6\phi$ (%)	52	52	50	49
20. SUBSAMPLE DRY WEIGHT (gm)	20.39	11.83	20.03	26.47
21. SPECIFICITY (exp.)				
22. MINERALOGY (text)	Plasticity	High	High	High
23. MINERALOGY (text)	0	0	0	0
24. DOMINANT MINERAL (%)				
25. SECONDARY MINERAL (%)				
26. OTHER MINERALS (%)				
27. REMARKS:	Color changes at 68', 77',			

SEDIMENT TYPE	SILTY CLAY	SILTY CLAY	SILTY CLAY	CLAYEY SILT
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1. SAMPLE NUMBER	66-203-1	CONTINUED	5. SAMPLER TYPE	
2. LATITUDE			6. WATER DEPTH (m.)	
3. LONGITUDE			7. CORE LENGTH (m.)	
4. DATE (day, month, year)			8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3575			
10. SUBSAMPLE DEPTH IN CORE (m.)	123-125			
11. COLOR	OLIVE GRAY (5Y 4/1)			
12. SOOR	FOUL			
13. WET DENSITY (lb./ft ³)				
14. RIGIDNESS (mm)				
15. MAXIMUM POROSITY (%)				
16. MINIMUM POROSITY (%)				
17. WATER CONTENT (%)				
18. ORGANIC CARBON CONTENT (%)				
19. SIZE ANALYSIS AND STATISTICAL MEASURES				
a. $\Sigma > 2\phi$ (%)	100 _a	100 _a	100 _a	100 _a
b. $> 2\phi$ to -1ϕ (%)	5 _b	5 _b	5 _b	5 _b
c. -1ϕ to 0ϕ (%)	44 _c	44 _c	44 _c	44 _c
d. 0ϕ to 1ϕ (%)	0 _d	0 _d	0 _d	0 _d
e. 1ϕ to 2ϕ (%)	0 _e	0 _e	0 _e	0 _e
f. 2ϕ to 3ϕ (%)	0 _f	0 _f	0 _f	0 _f
g. 3ϕ to 4ϕ (%)				
h. 4ϕ to 5ϕ (%)	15			
i. 5ϕ to 6ϕ (%)	36			
j. $> 6\phi$ (%)	47			
20. SUBSAMPLE DRY WEIGHT (gm)	12.57			
21. SPECIFICITY (exp.)				
22. MINERALOGY (text)	Plasticity			
23. MINERALOGY (text)	High			
24. DOMINANT MINERAL (%)	0			
25. SECONDARY MINERAL (%)				
26. OTHER MINERALS (%)				
27. REMARKS:				

SEDIMENT TYPE	CLAYEY SILT
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1. SAMPLE NUMBER	66-204-1	5. SAMPLER TYPE	KULLENBERG
2. LATITUDE	44 24 03 N	6. WATER DEPTH (m.)	119.5
3. LONGITUDE	68 55 30 W	7. CORE LENGTH (m.)	120
4. DATE (day, month, year)	8 October 1959	8. CORE PENETRATION (m.)	132
9. LABORATORY NUMBERS	3661 *	9. LABORATORY NUMBERS	3662
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2	10. SUBSAMPLE DEPTH IN CORE (m.)	30-32
11. COLOR	OLIVE GRAY (5Y 4/1)	11. COLOR	GRANISH OLIVE OLIVE GRAY (5Y 3/2)
12. OTHER		12. OTHER	
13. WET DENSITY (lb./ft. ³)		13. WET DENSITY (lb./ft. ³)	
14. RIGIDNESS (mm)		14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)		15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. ϕ_{-2} (%)	ϕ_{-2}	ϕ_{-2}	ϕ_{-2}
b. ϕ_{-2} to ϕ_{-1} (%)	SK ₁	SK ₂	SK ₃
c. ϕ_{-1} to ϕ_0 (%)	MD ₁	MD ₂	MD ₃
d. ϕ_0 to ϕ_1 (%)	0%	0%	0%
e. ϕ_1 to ϕ_2 (%)	1	1	1
f. ϕ_2 to ϕ_3 (%)	7	7	7
g. ϕ_3 to ϕ_4 (%)	41	40	41
h. ϕ_4 to ϕ_5 (%)	51	52	47
i. ϕ_5 (%)	1847	2258	1986
20. SUBSAMPLE DRY WEIGHT (gm)			
21. SPECIFICITY (avg.)			
22. MINIMUM PLASTICITY	High	High	High
23. SHRINK-TESTING LOW SHELL CON.	<1%	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS	ITEMS 11-26 DETERMINED IN THE LAB.		

* THE SAMPLE CONTAINED DARK STREAKS.

THE SAMPLE WAS FOUND TO BE UNIFORM.

THE SAMPLE WAS FOUND TO BE UNIFORM.

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THE SAMPLE WAS FOUND TO BE UNIFORM.

THE SAMPLE WAS FOUND TO BE UNIFORM.

1. SAMPLE NUMBER	66-204-1	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3665	9. LABORATORY NUMBERS	3666
10. SUBSAMPLE DEPTH IN CORE (m.)	92-94	10. SUBSAMPLE DEPTH IN CORE (m.)	118-120
11. COLOR	OLIVE GRAY (5Y 3/2)	11. COLOR	OLIVE GRAY (5Y 3/2)
12. OTHER		12. OTHER	
13. WET DENSITY (lb./ft. ³)		13. WET DENSITY (lb./ft. ³)	
14. RIGIDNESS (mm)		14. RIGIDNESS (mm)	
15. MAXIMUM POROSITY (%)		15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. ϕ_{-2} (%)	ϕ_{-2}	ϕ_{-2}	ϕ_{-2}
b. ϕ_{-2} to ϕ_{-1} (%)	SK ₁	SK ₂	SK ₃
c. ϕ_{-1} to ϕ_0 (%)	MD ₁	MD ₂	MD ₃
d. ϕ_0 to ϕ_1 (%)	0%	0%	0%
e. ϕ_1 to ϕ_2 (%)	1	1	1
f. ϕ_2 to ϕ_3 (%)	9	9	9
g. ϕ_3 to ϕ_4 (%)	42	41	41
h. ϕ_4 to ϕ_5 (%)	48	48	48
i. ϕ_5 (%)	3018	3018	3018
20. SUBSAMPLE DRY WEIGHT (gm)			
21. SPECIFICITY (avg.)			
22. MINIMUM PLASTICITY	High	High	High
23. SHRINK-TESTING LOW SHELL CON.	0	0	<1%
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS			

SEDIMENT TYPE

CLAYEY SILT

CLAYEY SILT

CLAYEY SILT

CLAYEY SILT

1. SAMPLE NUMBER	66-203-1	5. SAMPLER TYPE	Kullenberg
2. LATITUDE	44° 24' N	6. WATER DEPTH (m.)	11.2
3. LONGITUDE	68° 55' W	7. CORE LENGTH (m.)	116
4. DATE (day, month, year)	8 October 1959	8. CORE PENETRATION (m.)	132
9. LABORATORY NUMBERS	3844	9. LABORATORY NUMBERS	3845
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2	10. SUBSAMPLE DEPTH IN CORE (m.)	82-84
11. COLOR	Olive Gray 5341	11. COLOR	Olive Gray 5341
12. OTHER		12. OTHER	
13. WET DENSITY (lb./ft. ³)		13. WET DENSITY (lb./ft. ³)	
14. RIGIDITY (mm)		14. RIGIDITY (mm)	
15. MAXIMUM POROSITY (%)		15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES		19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < -2 _φ (%)	00 _φ	a. < -2 _φ (%)	00 _φ
b. -2 _φ to -1 _φ (%)	58 _φ	b. -2 _φ to -1 _φ (%)	58 _φ
c. -1 _φ to 0 _φ (%)	40 _φ	c. -1 _φ to 0 _φ (%)	40 _φ
d. 0 _φ to 1 _φ (%)	01 _φ	d. 0 _φ to 1 _φ (%)	01 _φ
e. 1 _φ to 2 _φ (%)	03 _φ	e. 1 _φ to 2 _φ (%)	03 _φ
f. 2 _φ to 3 _φ (%)		f. 2 _φ to 3 _φ (%)	
g. 3 _φ to 4 _φ (%)		g. 3 _φ to 4 _φ (%)	
h. 4 _φ to 5 _φ (%)	6	h. 4 _φ to 5 _φ (%)	6
i. 5 _φ to 6 _φ (%)	42	i. 5 _φ to 6 _φ (%)	42
j. > 6 _φ (%)	51	j. > 6 _φ (%)	48
20. DISAMPLE DRY WEIGHT (mg)	16.22	20. DISAMPLE DRY WEIGHT (mg)	22.76
21. SPHERICITY (avg.)	High	21. SPHERICITY (avg.)	High
22. MINIMUM TO MAXIMUM Plasticity	0	22. MINIMUM TO MAXIMUM Plasticity	High
23. MINIMUM TO MAXIMUM Shell Can	< 1%	23. MINIMUM TO MAXIMUM Shell Can	< 1%
24. INSTANT MINERAL (%)		24. INSTANT MINERAL (%)	
25. SECONDARY MINERAL (%)		25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)		26. OTHER MINERALS (%)	
27. REMARKS		27. REMARKS	

Items 11-26 determined in the lab
The core contained dark streaks in the first 7 inches and the last 2 inches.
Shell scattered throughout core.
10-109. Unconsolidated brown mud.

Sediment Type	Silty Clay	Clayey Silt	Clayey Silt
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1. SAMPLE NUMBER	66-205-1, continued	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3848	9. LABORATORY NUMBERS	3849
10. SUBSAMPLE DEPTH IN CORE (m.)	90-92	10. SUBSAMPLE DEPTH IN CORE (m.)	114-116
11. COLOR	Dark Greenish Gray 5353 1/2	11. COLOR	Dark Greenish Gray 5353 1/2
12. OTHER		12. OTHER	
13. WET DENSITY (lb./ft. ³)		13. WET DENSITY (lb./ft. ³)	
14. RIGIDITY (mm)		14. RIGIDITY (mm)	
15. MAXIMUM POROSITY (%)		15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES		19. SIZE ANALYSIS AND STATISTICAL MEASURES	
a. < -2 _φ (%)	00 _φ	a. < -2 _φ (%)	00 _φ
b. -2 _φ to -1 _φ (%)	58 _φ	b. -2 _φ to -1 _φ (%)	58 _φ
c. -1 _φ to 0 _φ (%)	40 _φ	c. -1 _φ to 0 _φ (%)	40 _φ
d. 0 _φ to 1 _φ (%)	01 _φ	d. 0 _φ to 1 _φ (%)	01 _φ
e. 1 _φ to 2 _φ (%)	03 _φ	e. 1 _φ to 2 _φ (%)	03 _φ
f. 2 _φ to 3 _φ (%)		f. 2 _φ to 3 _φ (%)	
g. 3 _φ to 4 _φ (%)		g. 3 _φ to 4 _φ (%)	
h. 4 _φ to 5 _φ (%)	8	h. 4 _φ to 5 _φ (%)	8
i. 5 _φ to 6 _φ (%)	45	i. 5 _φ to 6 _φ (%)	45
j. > 6 _φ (%)	47	j. > 6 _φ (%)	47
20. DISAMPLE DRY WEIGHT (mg)	22.33	20. DISAMPLE DRY WEIGHT (mg)	20.41
21. SPHERICITY (avg.)	High	21. SPHERICITY (avg.)	High
22. MINIMUM TO MAXIMUM Plasticity	< 1%	22. MINIMUM TO MAXIMUM Plasticity	< 1%
23. MINIMUM TO MAXIMUM Shell Can		23. MINIMUM TO MAXIMUM Shell Can	
24. INSTANT MINERAL (%)		24. INSTANT MINERAL (%)	
25. SECONDARY MINERAL (%)		25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)		26. OTHER MINERALS (%)	
27. REMARKS		27. REMARKS	

Sediment Type	Clayey Silt	Clayey Silt
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1. SAMPLE NUMBER	66-208-1	8. SAMPLER TYPE	Kullenberg	
2. LATITUDE	44° 25' 18" N	6. WATER DEPTH (m.)	9.8	
3. LONGITUDE	68° 35' 26" W	7. CORE LENGTH (m.)	12.2	
4. DATE (day, month, year)	8 October 1959	8. CORE PENETRATION (m.)	13.2	
9. LABORATORY NUMBERS	4015	4016	4017	4018
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2	2-24	24-37	38-50
11. COLOR	Olive Gray 513/2	Olive Gray 514/1	Olive Gray 514/1	Olive Gray 514/1
12. ODR				
13. WET DENSITY (lb./ft. ³)				
14. RIGIDNESS (cm)				
15. MAXIMUM POROSITY (%)				
16. MINIMUM POROSITY (%)				
17. WATER CONTENT (%)				
18. ORGANIC CARBON CONTENT (%)				
19. SIZE ANALYSIS AND STATISTICAL MEASURES				
a. ϕ_1 to ϕ_2 (%)	0.2	0.2	0.2	0.2
b. ϕ_2 to ϕ_3 (%)	35	35	35	35
c. ϕ_3 to ϕ_4 (%)	Md, 9.00	Md, 8.80	Md, 8.80	Md, 8.88
d. ϕ_4 to ϕ_5 (%)	0.1	0.1	0.1	0.1
e. ϕ_5 to ϕ_6 (%)	Trace	Trace	Trace	Trace
f. ϕ_6 to ϕ_7 (%)	3	3	3	3
g. ϕ_7 to ϕ_8 (%)	44	44	44	45
h. ϕ_8 to ϕ_9 (%)	50	46	50	48
i. ϕ_9 to ϕ_{10} (%)	10.68	10.47	9.26	8.53
20. SUBSAMPLE DRY WEIGHT (gm)				
21. SPECIFICITY (avg.)				
22. DOMINANT MINERAL (s)	High	High	High	High
23. SECONDARY MINERAL (s)	0	0	0	0
24. OTHER MINERALS (s)				
25. SECONDARY MINERALS (s)				
26. OTHER MINERALS (s)				

REMARKS: Thomas 11.20 meter mixed in the lab. Shell scattered throughout the core. Dark streaks in the first six inches and between 34 and 37 inches. Slight changes of color at 9.2 and 11.8 inches.

Sediment Type	Silty Clay	Clayey Silt	Silty Clay	Clayey Silt
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1. SAMPLE NUMBER	66-206-1 continued	8. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	4019	4020	4021
10. SUBSAMPLE DEPTH IN CORE (m.)	72-74	74-88	88-100
11. COLOR	Olive Gray 514/1	Olive Gray 513/2	Grayish Olive Green 513/2
12. ODR			
13. WET DENSITY (lb./ft. ³)			
14. RIGIDNESS (cm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. ϕ_1 to ϕ_2 (%)	0.2	0.2	0.2
b. ϕ_2 to ϕ_3 (%)	35	35	35
c. ϕ_3 to ϕ_4 (%)	46	46	46
d. ϕ_4 to ϕ_5 (%)	0.1	0.1	0.1
e. ϕ_5 to ϕ_6 (%)	Trace	Trace	Trace
f. ϕ_6 to ϕ_7 (%)	3	3	3
g. ϕ_7 to ϕ_8 (%)	40	43	40
h. ϕ_8 to ϕ_9 (%)	51	51	53
i. ϕ_9 to ϕ_{10} (%)	5.66	8.93	9.19
20. SUBSAMPLE DRY WEIGHT (gm)			
21. SPECIFICITY (avg.)			
22. DOMINANT MINERAL (s)	High	High	High
23. SECONDARY MINERAL (s)	~1%	0	<1%
24. OTHER MINERALS (s)			
25. SECONDARY MINERALS (s)			
26. OTHER MINERALS (s)			
27. REMARKS: Continued			

Sediment Type	Silty Clay	Silty Clay	Silty Clay
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1. SAMPLE NUMBER	66-207-1	5. SAMPLER TYPE	KULLENBERG
2. LATITUDE	44° 25' N	7. WATER DEPTH (m.)	9.2
3. LONGITUDE	68° 53' W	7. CORE LENGTH (m.)	109
4. DATE (day, month, year)	8 October 1959	8. CORE PENETRATION (m.)	144
9. LABORATORY NUMBERS	3616 *		3618
10. SUSPENSION DEPTH IN CORE (m.)	0-2		6-8
11. COLOR	Pure Greenish (581 41)		Dark Gray (51 41)
12. ODOUR			
13. WET DENSITY (lb./ft. ³)			
14. RIGIDNESS (mm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. ϕ_{-20} (%)	3	ϕ_{20}	3
b. ϕ_{-10} to ϕ_{-20} (%)		ϕ_{10}	3
c. ϕ_{-10} to ϕ_{10} (%)	Md. 980	$Md.$	876
d. ϕ_{10} to ϕ_{60} (%)		ϕ_{60}	2
e. ϕ_{60} to ϕ_{100} (%)	1	ϕ_{100}	2
f. ϕ_{100} to ϕ_{200} (%)		ϕ_{200}	1
g. ϕ_{200} to ϕ_{400} (%)			1
h. ϕ_{400} to ϕ_{600} (%)	7		6
i. ϕ_{600} to ϕ_{800} (%)	42		39
j. ϕ_{800} to ϕ_{1000} (%)	50		46
20. SUSPENSIBLE DRY WEIGHT (mg)	16.23		15.51
21. SPECIFICITY (avg.)	High		High
22. PLASTICITY (avg.)	High		High
23. SHAGGY-TEXTURE-TO-WEIGHT RATIO	<1%		<1%
24. INFLUENT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS	ITEMS 11-25 DETERMINED IN THE LAB.		

THE CODE CONTAINED ONE LARGE FRAGMENT (1/8" x 1/8" x 1/8") OF 200-250 MESH AT 86", WHICH WAS ANALYZED WITH A HIGH PERCENTAGE OF PLASTIC, DARK, AND SHAGGY. * LABORATORY NUMBERS

SEGMENT TYPE	Silty Clay	Clayey Silty	Clayey Silty	Silty Clay
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1. SAMPLE NUMBER	66-207-1	5. SAMPLER TYPE	CHANDLER
2. LATITUDE		7. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3620		3622
10. SUSPENSION DEPTH IN CORE (m.)	24-26		48-48
11. COLOR	Dark Gray (51 41)		Dark Gray (51 41)
12. ODOUR			
13. WET DENSITY (lb./ft. ³)			
14. RIGIDNESS (mm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. ϕ_{-20} (%)	3	ϕ_{20}	3
b. ϕ_{-10} to ϕ_{-20} (%)		ϕ_{10}	3
c. ϕ_{-10} to ϕ_{10} (%)	Md. 806	$Md.$	832
d. ϕ_{10} to ϕ_{60} (%)	6	ϕ_{60}	4
e. ϕ_{60} to ϕ_{100} (%)	6	ϕ_{100}	4
f. ϕ_{100} to ϕ_{200} (%)	3	ϕ_{200}	5
g. ϕ_{200} to ϕ_{400} (%)	3		5
h. ϕ_{400} to ϕ_{600} (%)	1		3
i. ϕ_{600} to ϕ_{800} (%)	6		6
j. ϕ_{800} to ϕ_{1000} (%)	32		33
k. ϕ_{1000} to ϕ_{1200} (%)	39		41
20. SUSPENSIBLE DRY WEIGHT (mg)	19.18		12.29
21. SPECIFICITY (avg.)	High		High
22. PLASTICITY (avg.)	High		High
23. SHAGGY-TEXTURE-TO-WEIGHT RATIO	>1%		>1%
24. INFLUENT MINERAL (%)			
25. SECONDARY MINERALS (%)			
26. OTHER MINERALS (%)			
27. REMARKS	0-6" Dark layers 0-52" silty clay, sandy at bottom 24-26" broken shell.		

SEGMENT TYPE	Clayey Mud	Clayey Silty	Silty Clay	Silty Clay
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1. SAMPLE NUMBER	66-247-1 CONTINUED										5. SAMPLER TYPE		
2. LATITUDE											5. WATER DEPTH (m.)		
3. LONGITUDE											7. CORE LENGTH (m.)		
4. DATE (day, month, year)											8. CORE PENETRATION (m.)		
9. LABORATORY NUMBERS	3624	3625	3626	3627									
10. SUBSAMPLE DEPTH IN CORE (m.)	61-63	73-75	75-77	83-86.5									
11. COLOR	Blue Gray (5Y 4/1)				Blue Gray (5Y 4/1)				Blue Gray (5Y 4/1)				
12. ODR													
13. NET DENSITY (kg./l ³)													
14. RIGIDNESS (cm)													
15. MAXIMUM POROSITY (%)													
16. MINIMUM POROSITY (%)													
17. WATER CONTENT (%)													
18. ORGANIC CARBON CONTENT (%)													
19. SITE ANALYSIS AND STATISTICAL MEASURES													
a. $\bar{x} \pm 2s$ (s)	17	10.4, 23	10	0.1, 2.3	4	0.1, 2.3	8	0.1, 3.12					
b. $\bar{x} \pm 2s$ to \bar{x}_0 (s)	7	10.4, 23	7	0.1, 2.3	4	0.1, 2.3	5	0.1, 3.12					
c. $\bar{x} \pm 2s$ to \bar{x}_0 (s)	5	10.4, 23	5	0.1, 2.3	5	0.1, 2.3	5	0.1, 3.12					
d. $\bar{x} \pm 2s$ to \bar{x}_0 (s)	6	0.1, 2.3	9	0.1, 2.3	6	0.1, 2.3	6	0.1, 3.12					
e. $\bar{x} \pm 2s$ to \bar{x}_0 (s)	9	0.1, 2.3	13	0.1, 2.3	8	0.1, 2.3	7	0.1, 3.12					
f. $\bar{x} \pm 2s$ to \bar{x}_0 (s)	9	0.1, 2.3	11	0.1, 2.3	9	0.1, 2.3	7	0.1, 3.12					
g. $\bar{x} \pm 2s$ to \bar{x}_0 (s)	5	0.1, 2.3	6	0.1, 2.3	1	0.1, 2.3	6	0.1, 3.12					
h. $\bar{x} \pm 2s$ to \bar{x}_0 (s)	9	0.1, 2.3	10	0.1, 2.3	18	0.1, 2.3	20	0.1, 3.12					
i. $\bar{x} \pm 2s$ to \bar{x}_0 (s)	15	0.1, 2.3	14	0.1, 2.3	15	0.1, 2.3	22	0.1, 3.12					
j. $\bar{x} \pm 2s$ to \bar{x}_0 (s)	17	0.1, 2.3	14	0.1, 2.3	11	0.1, 2.3	15	0.1, 3.12					
20. SUBSAMPLE DRY WEIGHT (mg)	3611										25530	3387	3445
21. SPECIFIC (mg.)													
22. PERCENTAGE PLASTICITY	Low										Low	High	High
23. PERCENTAGE PLASTICITY	< 1%										< 1%	0	0
24. DOMINANT MINERAL (%)													
25. SECONDARY MINERAL (%)													
26. OTHER MINERALS (%)													
27. REMARKS:													

52-75" silty sand, shell
75-109" silty sand, dark layers 107-109"
75-87 mud - sticky

SAMPLE NO.	SAMPLE NO.	SAMPLE NO.	SAMPLE NO.
66-247-1	66-247-1	66-247-1	66-247-1

1. SAMPLE NUMBER	66-207-1. CONTINUED				5. SAMPLER TYPE	
2. LATITUDE					5. WATER DEPTH (m.)	
3. LONGITUDE					7. CORE LENGTH (m.)	
4. DATE (Day, month, year)					8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3628	3629	3630			
10. SUBSAMPLE DEPTH IN CORE (m.)	85.5-87	87-89	107-109			
11. COLOR	Blue Gray (5Y 4/1)				Blue Gray (5Y 4/1)	
12. ODR						
13. NET DENSITY (kg./l ³)						
14. RIGIDNESS (cm)						
15. MAXIMUM POROSITY (%)						
16. MINIMUM POROSITY (%)						
17. WATER CONTENT (%)						
18. ORGANIC CARBON CONTENT (%)						
19. SITE ANALYSIS AND STATISTICAL MEASURES						
a. $\bar{x} \pm 2s$ (s)	4	10.3, 3.11	27	0.1, 5.52	13	0.1, 5.52
b. $\bar{x} \pm 2s$ to \bar{x}_0 (s)	4	10.3, 3.11	4	0.1, 5.52	4	0.1, 5.52
c. $\bar{x} \pm 2s$ to \bar{x}_0 (s)	4	10.3, 3.11	3	0.1, 5.52	5	0.1, 5.52
d. $\bar{x} \pm 2s$ to \bar{x}_0 (s)	5	0.1, 5.52	4	0.1, 5.52	5	0.1, 5.52
e. $\bar{x} \pm 2s$ to \bar{x}_0 (s)	6	0.1, 5.52	4	0.1, 5.52	6	0.1, 5.52
f. $\bar{x} \pm 2s$ to \bar{x}_0 (s)	7	0.1, 5.52	4	0.1, 5.52	4	0.1, 5.52
g. $\bar{x} \pm 2s$ to \bar{x}_0 (s)	5	0.1, 5.52	2	0.1, 5.52	3	0.1, 5.52
h. $\bar{x} \pm 2s$ to \bar{x}_0 (s)	18	0.1, 5.52	6	0.1, 5.52	7	0.1, 5.52
i. $\bar{x} \pm 2s$ to \bar{x}_0 (s)	26	0.1, 5.52	22	0.1, 5.52	24	0.1, 5.52
j. $\bar{x} \pm 2s$ to \bar{x}_0 (s)	28	0.1, 5.52	24	0.1, 5.52	28	0.1, 5.52
20. SUBSAMPLE DRY WEIGHT (mg)	1960				2223	2316
21. SPECIFIC (mg.)						
22. PERCENTAGE PLASTICITY	Med.				Med.	Med.
23. PERCENTAGE PLASTICITY	0				0	0
24. DOMINANT MINERAL (%)						
25. SECONDARY MINERAL (%)						
26. OTHER MINERALS (%)						
27. REMARKS:						

SAMPLE NO.	SAMPLE NO.	SAMPLE NO.	SAMPLE NO.
66-247-1	66-247-1	66-247-1	66-247-1

1. SAMPLE NUMBER	66-208-1	Killenberg	
2. LATITUDE	44 24 06 N		97
3. LONGITUDE	68 53 35 W		
4. DATE (Day, month, year)	8 October 1939		
5. DATE (Day, month, year)			
6. DATE (Day, month, year)			
7. CORE LENGTH (in.)	165		
8. CORE PENETRATION (in.)	165		
9. LABORATORY NUMBERS	3810	3811	3812
10. SUBSAMPLE DEPTH IN CORE (in.)	0-2	20-24	50-52
11. COLOR	Olive Gray 5343/2	Dark Yellowish Gray 5344/2	Olive Gray 5344/1
12. COLOR			
13. WET DENSITY (lb./ft. ³)			
14. RIGIDNESS (mm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < -2 _φ (%)	2	02 ₂	02 ₂
b. -2 _φ to -1 _φ (%)	2	3 ₁	3 ₁
c. -1 _φ to 0 _φ (%)	2	M ₁ 8.13	M ₁ 8.67
d. 0 _φ to 1 _φ (%)	3	01 ₁ 5.68	01 ₁ 6.86
e. 1 _φ to 2 _φ (%)	3	03 ₂	03 ₂
f. 2 _φ to 3 _φ (%)	3	1	3
g. 3 _φ to 4 _φ (%)	2		1
h. 4 _φ to 5 _φ (%)	10	8	12
i. 5 _φ to 6 _φ (%)	34	42	40
j. > 6 _φ (%)	39	49	44
20. SUBSAMPLE DRY WEIGHT (gm)	23.17	29.44	17.66
21. SPECIFIC GRAVITY			2.65
22. PLASTICITY	High	High	High
23. SHRECK-REBOUND-TEST-50/100 Gm.	0	0	0
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:	Items 11-16 determined in the lab		

The core contained numerous granules and pebbles between 50 and 82 inches. The first 6 inches contained dark streaks.

Sediment Type	Clayey silt	Clayey silt	Clayey silt
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The core contained numerous granules and pebbles between 50 and 82 inches. The first 6 inches contained dark streaks.

Sediment Type	Clayey Silt	Clayey Silt	Clayey Silt
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1. SAMPLE NUMBER	66-208-1 continued		5. SAMPLER TYPE	
2. LATITUDE				
3. LONGITUDE				
4. DATE (day, month, year)				
5. DATE (day, month, year)				
6. DATE (day, month, year)				
7. CORE LENGTH (in.)				
8. CORE PENETRATION (in.)				
9. LABORATORY NUMBERS	3814	3816		3817
10. SUBSAMPLE DEPTH IN CORE (in.)	52-54	52-52		97-101
11. COLOR	Olive Gray 5344/1 Medium Brown 5344/2 Gray 5344/3	Olive Gray 5344/1 Medium Brown 5344/2 Gray 5344/3		Olive Gray 5344/1 Medium Brown 5344/2 Gray 5344/3
12. COLOR				
13. WET DENSITY (lb./ft. ³)				
14. RIGIDNESS (mm)				
15. MAXIMUM POROSITY (%)				
16. MINIMUM POROSITY (%)				
17. WATER CONTENT (%)				
18. ORGANIC CARBON CONTENT (%)				
19. SIZE ANALYSIS AND STATISTICAL MEASURES				
a. < -2 _φ (%)	9	32	4	25
b. -2 _φ to -1 _φ (%)	1	34	1	54
c. -1 _φ to 0 _φ (%)	2	M ₁ 7.28	2	M ₁ 6.00
d. 0 _φ to 1 _φ (%)	4	01 ₁ 9.00	1	01 ₁
e. 1 _φ to 2 _φ (%)	5	03 ₂	1	03 ₂ 8.82
f. 2 _φ to 3 _φ (%)	4	1	1	1
g. 3 _φ to 4 _φ (%)	2		1	1
h. 4 _φ to 5 _φ (%)	11	6	6	12
i. 5 _φ to 6 _φ (%)	31	27	36	37
j. > 6 _φ (%)	31	22	41	30
20. SUBSAMPLE DRY WEIGHT (gm)	39.50	37.76	26.13	46.74
21. SPECIFIC GRAVITY				
22. PLASTICITY	High	High	Low	
23. SHRECK-REBOUND-TEST-50/100 Gm.	0	0	0	
24. DOMINANT MINERAL (%)				
25. SECONDARY MINERAL (%)				
26. OTHER MINERALS (%)				
27. REMARKS:	0-2" clayey silt, 0-2" Black layers silt, color changes at 9" & 50" pebbles becoming numerous at 50"			

Sediment Type	Clayey Silt w/ dark pebbles	Clayey Silt w/ dark pebbles	Clayey Silt w/ dark pebbles
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1. SAMPLE NUMBER	66-106-1 continued	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3518		
10. SUBSAMPLE DEPTH IN CORE (m.)	101-104		
11. COLOR	Olive Gray 5Y4/1		
12. ODR			
13. WET DENSITY (lb./ft ³)			
14. FIDUCIAL (cm)			
15. WATSON FIDUCIAL (cm)			
16. WATSON FIDUCIAL (cm)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2 ₀ (%)	14	c ₅	
b. < 2 ₀ to < 4 ₀ (%)	1	d ₅	
c. < 4 ₀ to < 6 ₀ (%)	815	m ₅	
d. < 6 ₀ to < 8 ₀ (%)	0.562	o ₁	
e. < 8 ₀ to < 10 ₀ (%)	3	o ₂	
f. < 10 ₀ to < 12 ₀ (%)			
g. < 12 ₀ to < 14 ₀ (%)			
h. < 14 ₀ to < 16 ₀ (%)	10		
i. < 16 ₀ to < 18 ₀ (%)	23		
j. < 18 ₀ to < 20 ₀ (%)	3.9		
20. SUBSAMPLABLE DRY WEIGHT (gm)	5.540		
21. SPECIFIC GRAVITY (g/cc)			
22. SUBSAMPLABLE (g/cc) Plasticity			
23. SURFACE TEXTURE (mm. 1/16 in.)			
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:	82-88" blue, pebbly 5Y4/4 88-92" clay, blue clay 92-97" silt, green calcified 97-101" blue clay 101-106" 3/4" olive gray.		
Sediment Type	Clayey Silt		

1. SAMPLE NUMBER	66-208-1	5. SAMPLER TYPE	Kullenberg
2. LATITUDE	44° 23'	6. WATER DEPTH (m.)	9.2
3. LONGITUDE	68° 53' W	7. CORE LENGTH (m.)	65
4. DATE (day, month, year)	8 October 1959	8. CORE PENETRATION (m.)	60
9. LABORATORY NUMBERS	3494		
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2		
11. COLOR	Olive Gray 5Y4/1		
12. ODR			
13. WET DENSITY (lb./ft ³)			
14. FIDUCIAL (cm)			
15. WATSON FIDUCIAL (cm)			
16. WATSON FIDUCIAL (cm)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2 ₀ (%)	4	c ₅	2
b. < 2 ₀ to < 4 ₀ (%)		d ₅	3
c. < 4 ₀ to < 6 ₀ (%)	8.50	m ₅	8.33
d. < 6 ₀ to < 8 ₀ (%)	0.675	o ₁	6.10
e. < 8 ₀ to < 10 ₀ (%)		o ₂	4
f. < 10 ₀ to < 12 ₀ (%)	1		
g. < 12 ₀ to < 14 ₀ (%)	2		
h. < 14 ₀ to < 16 ₀ (%)	5		
i. < 16 ₀ to < 18 ₀ (%)	13		
j. < 18 ₀ to < 20 ₀ (%)	36		
k. < 20 ₀ to < 22 ₀ (%)	43		
20. SUBSAMPLABLE DRY WEIGHT (gm)	28.85		
21. SPECIFIC GRAVITY (g/cc)			
22. SUBSAMPLABLE (g/cc) Plasticity	High		
23. SURFACE TEXTURE (mm. 1/16 in.)			
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:	Items 1-26 determined in the lab. Dredge material Soft, plastic, brown clay with dark streaks of the top 0-2" 3 Nine fine granules 33-36 Silty, bluish-green clay		
Sediment Type	Clayey Silt	Clayey Silt	Sandy Mud

66-219-1 continued				
1. LATITUDE				
2. LONGITUDE				
3. DATE (day, month, year)				
4. CORE LENGTH (m)				
5. DATE (day, month, year)				
6. CORE PENETRATION (m)				
7. LABORATORY NUMBERS				
8. SUBSAMPLE DEPTH IN CORE (m)				
9. COLOR				
10. LABORATORY NUMBERS				
11. SUBSAMPLE DEPTH IN CORE (m)				
12. COLOR				
13. WET DENSITY (lb./ft. ³)				
14. RESISTANCE (cm)				
15. MAXIMUM POROSITY (%)				
16. MINIMUM POROSITY (%)				
17. WATER CONTENT (%)				
18. ORGANIC CARBON CONTENT (%)				
19. SIZE ANALYSIS AND STATISTICAL MEASURES				
a. < 2 ₅ (%)	5	71	2.86	2
b. 2 ₅ to 4 ₅ (%)	3	74	10.59	1
c. 4 ₅ to 6 ₅ (%)	2	82	5.35	1
d. 6 ₅ to 10 ₅ (%)	3	61	3.03	2
e. 10 ₅ to 20 ₅ (%)	4	13	8.80	3
f. 20 ₅ to 40 ₅ (%)	7	6	6	1
g. 40 ₅ to 60 ₅ (%)	13	9	9	2
h. 60 ₅ to 80 ₅ (%)	19	17	22	32
i. 80 ₅ to 100 ₅ (%)	20	31	26	34
j. > 100 ₅ (%)	0.3	28	26	33
20. SUBSAMPLE DRY WEIGHT (mg)				
21. SPECIFIC GRAVITY				
22. PLASTICITY INDEX				
23. SHREVE-THEGGER PLASTICITY INDEX				
24. DOMINANT MINERAL (%)				
25. SECONDARY MINERAL (%)				
26. OTHER MINERALS (%)				
27. REMARKS:				

3. SAMPLE TYPE				
6. WATER (wt% (w))				
7. CORE LENGTH (m)				
8. CORE PENETRATION (m)				
3492	3493	3494	3500	
33-36	34-38	40-42		
Dark Greenish Dark Greenish	Dark Greenish	Greenish Gray	Greenish Gray	
514/1	514/4	514/4	514/4	
31-33	34-36	40-42		
Clive Gray				
514/1				
5	71	2.86	2	102
3	74	10.59	1	54
2	82	5.35	1	45
3	61	3.03	2	710
4	13	8.80	3	91
7	6	6	1	5152
13	9	9	2	32
19	17	22	32	34
20	31	26	34	33
0.3	28	26	33	28.72
27.59	35.43	44.45		
High	High	High		High
0	0	0		0
Plasticity				
Plasticity				
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66-209-1 continued				
1. LATITUDE				
2. LONGITUDE				
3. DATE (day, month, year)				
4. CORE LENGTH (m)				
5. SAMPLER TYPE				
6. WATER DEPTH (m)				
7. CORE LENGTH (m)				
8. CORE PENETRATION (m)				
9. LABORATORY NUMBERS				
10. SUBSAMPLE DEPTH IN CORE (m)				
11. COLOR				
12. ODR				
13. WET DENSITY (lb./ft ³)				
14. RESISTANCE (mm)				
15. MAXIMUM POROSITY (%)				
16. MINIMUM POROSITY (%)				
17. WATER CONTENT (%)				
18. ORGANIC CARBON CONTENT (%)				
19. SIZE ANALYSIS AND STATISTICAL MEASURES				
a. < 2 ₅ (%)				
b. 2 ₅ to 4 ₅ (%)				
c. 4 ₅ to 6 ₅ (%)				
d. 6 ₅ to 10 ₅ (%)				
e. 10 ₅ to 20 ₅ (%)				
f. 20 ₅ to 40 ₅ (%)				
g. 40 ₅ to 60 ₅ (%)				
h. 60 ₅ to 80 ₅ (%)				
i. 80 ₅ to 100 ₅ (%)				
j. > 100 ₅ (%)				
20. SUBSAMPLE DRY WEIGHT (mg)				
21. SPECIFIC GRAVITY (mg./cc.)				
22. PLASTICITY INDEX				
23. SHREVE-THEGGER PLASTICITY INDEX				
24. DOMINANT MINERAL (%)				
25. SECONDARY MINERAL (%)				
26. OTHER MINERALS (%)				
27. REMARKS				

50 ₂	50 ₁	50 ₂	50 ₁	50 ₂	50 ₁
700	725	730	730	735	735
5.23	5.55	5.63	5.63	5.70	5.70
1	1	1	1	1	1
4	4	4	4	4	4
26	26	29	26	26	26
34	34	36	36	33	33
32	33	30	30	34	34
4.80	4.80	4.715	4.715	4.68	4.68
High	High	High	High	High	High
0	0	0	0	0	0
Plasticity	Plasticity	Plasticity	Plasticity	Plasticity	Plasticity
Shall Cn.	Shall Cn.	Shall Cn.	Shall Cn.	Shall Cn.	Shall Cn.

1. SAMPLE NUMBER		66-210-1		5. SAMPLER TYPE	VALLENBERG	
2. LATITUDE	44° 25'	17° N	02° W	6. WATER DEPTH (m.)	90	
3. LONGITUDE	68° 52'	02° W	19°	7. CORE LENGTH (m.)	119	
4. DATE (Day, month, year)	8 October 1959			8. CORE PENETRATION (m.)	3693	
9. LABORATORY NUMBERS	3891			9. LABORATORY NUMBERS	3694	
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2			10. SUBSAMPLE DEPTH IN CORE (m.)	11-13	
11. COLOR	Gambian Olive Green (5.6V 3/2)			11. COLOR	Gambian Olive Green (5.6V 3/2)	
12. ODR				12. ODR		
13. WET DENSITY (lb./ft ³)				13. WET DENSITY (lb./ft ³)		
14. RIGIDNESS (mm)				14. RIGIDNESS (mm)		
15. METHIEN PROSITY (%)				15. METHIEN PROSITY (%)		
16. METHIEN PROSITY (%)				16. METHIEN PROSITY (%)		
17. WATER CONTENT (%)				17. WATER CONTENT (%)		
18. ORGANIC CARBON CONTENT (%)				18. ORGANIC CARBON CONTENT (%)		
19. SIZE ANALYSIS AND STATISTICAL MEASURES						
a. -2 ₂ (%)	no ₂	CO ₂	CO ₂	a. -2 ₂ (%)	no ₂	CO ₂
b. -2 ₂ to -1 ₂ (%)	no ₂	34 ₂	34 ₂	b. -2 ₂ to -1 ₂ (%)	34 ₂	34 ₂
c. -1 ₂ to 0 ₂ (%)	no ₂	8.67	8.67	c. -1 ₂ to 0 ₂ (%)	no ₂	8.67
d. 0 ₂ to 1 ₂ (%)	2	01.710	01.710	d. 0 ₂ to 1 ₂ (%)	01.710	01.710
e. 1 ₂ to 2 ₂ (%)	03 ₂	1	03 ₂	e. 1 ₂ to 2 ₂ (%)	03 ₂	1
f. 2 ₂ to 3 ₂ (%)	1	1	1	f. 2 ₂ to 3 ₂ (%)	1	1
g. 3 ₂ to 4 ₂ (%)	1	1	1	g. 3 ₂ to 4 ₂ (%)	1	3
h. 4 ₂ to 5 ₂ (%)	11	10	14	h. 4 ₂ to 5 ₂ (%)	14	13
i. 5 ₂ to 6 ₂ (%)	43	42	39	i. 5 ₂ to 6 ₂ (%)	39	37
j. 6 ₂ to 7 ₂ (%)	45	47	44	j. 6 ₂ to 7 ₂ (%)	44	43
20. SUBSAMPLE DRY WEIGHT (gm)	19.17			20. SUBSAMPLE DRY WEIGHT (gm)	28.34	
21. SPECIFIC (avg.)	High			21. SPECIFIC (avg.)	High	
22. Plasticity Plasticity	High			22. Plasticity Plasticity	High	
23. Plasticity Plasticity	2.1%			23. Plasticity Plasticity	2.1%	
24. Plasticity Plasticity	2.1%			24. Plasticity Plasticity	2.1%	
25. SECONDARY MINERAL (%)				25. SECONDARY MINERAL (%)		
26. OTHER MINERALS (%)				26. OTHER MINERALS (%)		

SEDIMENT TYPE	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT
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1. SAMPLE NUMBER	66-210-1; CONTINUED			5. SAMPLER TYPE			
2. LATITUDE				6. WATER DEPTH (m.)			
3. LONGITUDE				7. CORE LENGTH (m.)			
4. DATE (Day, month, year)				8. CORE PENETRATION (m.)	3696		
9. LABORATORY NUMBERS	3695			9. LABORATORY NUMBERS	3695		
10. SUBSAMPLE DEPTH IN CORE (m.)	82-84			10. SUBSAMPLE DEPTH IN CORE (m.)	117-119		
11. COLOR	Gambian Olive Green (5.6V 4/2)			11. COLOR	Gambian Olive Green (5.6V 4/2)		
12. ODR				12. ODR			
13. WET DENSITY (lb./ft ³)				13. WET DENSITY (lb./ft ³)			
14. RIGIDNESS (mm)				14. RIGIDNESS (mm)			
15. MATHIEN PROSITY (%)				15. MATHIEN PROSITY (%)			
16. MATHIEN PROSITY (%)				16. MATHIEN PROSITY (%)			
17. WATER CONTENT (%)				17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)				18. ORGANIC CARBON CONTENT (%)			
19. SIZE ANALYSIS AND STATISTICAL MEASURES							
a. -2 ₂ (%)	no ₂	CO ₂	CO ₂	a. -2 ₂ (%)	no ₂	CO ₂	CO ₂
b. -2 ₂ to -1 ₂ (%)	34 ₂	34 ₂	34 ₂	b. -2 ₂ to -1 ₂ (%)	34 ₂	34 ₂	34 ₂
c. -1 ₂ to 0 ₂ (%)	no ₂	8.51	8.51	c. -1 ₂ to 0 ₂ (%)	no ₂	8.51	8.51
d. 0 ₂ to 1 ₂ (%)	3	01.655	01.655	d. 0 ₂ to 1 ₂ (%)	01.655	01.655	01.655
e. 1 ₂ to 2 ₂ (%)	03 ₂	3	03 ₂	e. 1 ₂ to 2 ₂ (%)	03 ₂	3	03 ₂
f. 2 ₂ to 3 ₂ (%)	3	3	3	f. 2 ₂ to 3 ₂ (%)	3	3	3
g. 3 ₂ to 4 ₂ (%)	8	8	8	g. 3 ₂ to 4 ₂ (%)	8	8	8
h. 4 ₂ to 5 ₂ (%)	16	16	23	h. 4 ₂ to 5 ₂ (%)	23	23	23
i. 5 ₂ to 6 ₂ (%)	38	38	30	i. 5 ₂ to 6 ₂ (%)	30	30	30
j. 6 ₂ to 7 ₂ (%)	42	42	32	j. 6 ₂ to 7 ₂ (%)	32	32	32
20. SUBSAMPLE DRY WEIGHT (gm)	21.15			20. SUBSAMPLE DRY WEIGHT (gm)	21.92		
21. SPECIFIC (avg.)	High			21. SPECIFIC (avg.)	High		
22. Plasticity Plasticity	2.1%			22. Plasticity Plasticity	2.1%		
23. Plasticity Plasticity	2.1%			23. Plasticity Plasticity	2.1%		
24. Plasticity Plasticity				24. Plasticity Plasticity			
25. SECONDARY MINERAL (%)				25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)				26. OTHER MINERALS (%)			
27. REMARKS:							

SEDIMENT TYPE	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT
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1. SAMPLE NUMBER	60-211-1	5. SAMPLER TYPE	KULLENBERG
2. LATITUDE	44 25 22 N	6. WATER DEPTH (m.)	8.7
3. LONGITUDE	68 49 58 W	7. CORE LENGTH (m.)	94
4. DATE (day, month, year)	8 OCTOBER 1959	8. CORE PENETRATION (m.)	120
9. LABORATORY NUMBERS	3405		
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2		
11. COLOR	3405		
12. DOOR	3405		
13. MET DENSITY (lb./ft. ³)	0-2		
14. RIGIDNESS (mm)	3406		
15. MAXIMUM POROSITY (%)	12-13		
16. MINIMUM POROSITY (%)	36-40		
17. WATER CONTENT (%)	3407		
18. ORGANIC CARBON CONTENT (%)	3408		
19. SITE ANALYSIS AND STATISTICAL MEASURES			
a. < 2, 1.	05 ₂	05 ₁	05 ₃
b. 2, 2, 10, 10, 10	5 ₂	5 ₁	5 ₃
c. 1, 10, 10, 10, 10	ME ₂	ME ₁	ME ₃
d. 0, 10, 10, 10, 10	01 ₂	01 ₁	01 ₃
e. 1, 10, 2, 10, 10	03 ₂	03 ₁	03 ₃
f. 2, 10, 2, 10, 10	1		
g. 2, 10, 5 ₂ (%)	17		
h. 5 ₂ to 5 ₁ (%)	27		
i. 5 ₂ to 5 ₃ (%)	43		
j. 5 ₂ to 5 ₁ (%)	16/6		
20. SUBSAMPLE DRY WEIGHT (mg)			
21. SPECIFICITY (mg.)			
22. ROUGHNESS (mg.)			
23. SURFACE TEXTURE (mg.)			
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:			
28. SEGMENT TYPE			

0-40" Silty clay becoming sandy toward bottom. Some "very sandy" layers. Open worm burrows and scattered shell fragments. Very silty, layers at 59-60". Brown sandy lumps at 79". Large piece of wood at 94". Lower portion of core paddy - and somewhat disturbed.

1. SAMPLE NUMBER	60-211-1	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3409		
10. SUBSAMPLE DEPTH IN CORE (m.)	60-62		
11. COLOR	OLIVE GRAY (5Y 4/1)		
12. DOOR			
13. MET DENSITY (lb./ft. ³)			
14. RIGIDNESS (mm)			
15. MAXIMUM POROSITY (%)			
16. MINIMUM POROSITY (%)			
17. WATER CONTENT (%)			
18. ORGANIC CARBON CONTENT (%)			
19. SITE ANALYSIS AND STATISTICAL MEASURES			
a. < 2, 1.	05 ₂	05 ₁	05 ₃
b. 2, 2, 10, 10, 10	5 ₂	5 ₁	5 ₃
c. 1, 10, 10, 10, 10	ME ₂	ME ₁	ME ₃
d. 0, 10, 10, 10, 10	01 ₂	01 ₁	01 ₃
e. 1, 10, 2, 10, 10	03 ₂	03 ₁	03 ₃
f. 2, 10, 2, 10, 10	1		
g. 2, 10, 5 ₂ (%)			
h. 5 ₂ to 5 ₁ (%)			
i. 5 ₂ to 5 ₃ (%)			
j. 5 ₂ to 5 ₁ (%)			
20. SUBSAMPLE DRY WEIGHT (mg)			
21. SPECIFICITY (mg.)			
22. ROUGHNESS (mg.)			
23. SURFACE TEXTURE (mg.)			
24. DOMINANT MINERAL (%)			
25. SECONDARY MINERAL (%)			
26. OTHER MINERALS (%)			
27. REMARKS:			
28. SEGMENT TYPE			

1. SAMPLE NUMBER	66-213-1	5. SAMPLER TYPE	KULLENBERG
2. LATITUDE	44 24 10 N	6. WATER DEPTH (m.)	10.8
3. LONGITUDE	68 51 55 W	7. CORE LENGTH (m.)	110
4. DATE (day, month, year)	8 OCTOBER 1959	8. CORE PENETRATION (m.)	144
9. LABORATORY NUMBERS	3742 *	9. LABORATORY NUMBERS	3744 3745
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2	10. SUBSAMPLE DEPTH IN CORE (m.)	46-48
11. COLOR	blue gray (5Y 4/1)	11. COLOR	blue gray (5Y 4/1)
12. ODP#		12. ODP#	
13. WET DENSITY (lb./ft ³)		13. WET DENSITY (lb./ft ³)	
14. RIGIDITY (cm)		14. RIGIDITY (cm)	
15. MINIMUM POROSITY (%)		15. MINIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2, (%)	0.2	0.5	0.2
b. 2 to 4, (%)	54	54	54
c. 4 to 6, (%)	887	887	887
d. 6 to 10, (%)	0	0	0
e. 10 to 20, (%)	673	673	673
f. 20 to 40, (%)	2	2	2
g. 40 to 60, (%)	1	1	1
h. 60 to 80, (%)	11	11	11
i. 80 to 100, (%)	39	41	42
j. > 9, (%)	47	47	50
20. DISPERSED DRY WEIGHT (m)	16.02	16.70	15.37
21. SPECIFIC (avg.)			1870
22. PLASTICITY (avg.)	High	High	High
23. LIQUID LIMIT (mm) Shell Can	0	0	0
24. PLASTIC LIMIT (mm) Shell Can	0	0	0
25. SECONDARY MINERALS (%)			
26. OTHER MINERALS (%)			
27. REMARKS	ITEMS 11-26 DETERMINED IN THE LAB * THE SAMPLE CONTAINED DARK STREAKS 0-3 in. Dark layer. Slight color change at 69"		

SEGMENT TYPE	CLAYEY SILT	CLAYEY SILT	SILT CLAY
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1. SAMPLE NUMBER	66-213-1	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3746	9. LABORATORY NUMBERS	3748
10. SUBSAMPLE DEPTH IN CORE (m.)	69-71	10. SUBSAMPLE DEPTH IN CORE (m.)	103-105
11. COLOR	greenish blue (5Y 3/2)	11. COLOR	greenish blue (5Y 3/2)
12. ODP#		12. ODP#	
13. WET DENSITY (lb./ft ³)		13. WET DENSITY (lb./ft ³)	
14. RIGIDITY (cm)		14. RIGIDITY (cm)	
15. MINIMUM POROSITY (%)		15. MINIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL MEASURES			
a. < 2, (%)	0.2	0.5	0.2
b. 2 to 4, (%)	54	54	54
c. 4 to 6, (%)	887	887	887
d. 6 to 10, (%)	0	0	0
e. 10 to 20, (%)	725	716	716
f. 20 to 40, (%)	2	2	2
g. 40 to 60, (%)	1	1	1
h. 60 to 80, (%)	10	10	10
i. 80 to 100, (%)	40	39	33
j. > 9, (%)	48	47	35
20. DISPERSED DRY WEIGHT (m)	13.91	17.28	26.62
21. SPECIFIC (avg.)			2115
22. PLASTICITY (avg.)	High	High	Med.
23. LIQUID LIMIT (mm) Shell Can	0	0	4%
24. PLASTIC LIMIT (mm) Shell Can	0	0	?
25. SECONDARY MINERALS (%)			
26. OTHER MINERALS (%)			
27. REMARKS			

SEGMENT TYPE	CLAYEY SILT	CLAYEY SILT	SILT CLAY
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1. SAMPLE NUMBER	2. DATE	3. LOCATION	4. SITE	5. SAMPLER TYPE	6. WATER DEPTH (m.)	7. CORE LENGTH (m.)	8. CORE PENETRATION (m.)	9. LABORATORY NUMBERS	10. SUBSAMPLE DEPTH IN CORE (m.)	11. COLOR	12. OTHER	13. WET DENSITY (lb./ft. ³)	14. RIGIDITY (cm)	15. MAXIMUM POROSITY (%)	16. MINIMUM POROSITY (%)	17. WATER CONTENT (%)	18. ORGANIC CARBON CONTENT (%)	19. SITE ANALYSIS AND STATISTICAL MEASURES	20. SUBSAMPLE DRY WEIGHT (g)	21. SPECIFICITY (vol.)	22. PLASTICITY	23. SLOPE-TESTING-TERM Shell/Cm	24. DOMINANT MINERAL (%)	25. SECONDARY MINERAL (%)	26. OTHER MINERALS (%)	27. REMARKS	28. SEGMENT TYPE	29. SUTY CLAY	30. SUTY MUD	31. SUTY CLAY
66-214-1	14	18	4	1	20	0	1/3	3395	19	36																				
44	56	37	W																											
DATE (day, month, year)	18	October	1959																											
LABORATORY NUMBERS	3392	6																												
SUBSAMPLE DEPTH IN CORE (m.)	3393	12																												
COLOR	MEDIUM BLuish	GRAY	OLIVE GRAY	OLIVE GRAY	(5 Y 4/1)	(5 Y 4/1)																								
OTHER	(5.8 6/1)																													
WET DENSITY (lb./ft. ³)																														
RIGIDITY (cm)																														
MAXIMUM POROSITY (%)																														
MINIMUM POROSITY (%)																														
WATER CONTENT (%)																														
ORGANIC CARBON CONTENT (%)																														
SITE ANALYSIS AND STATISTICAL MEASURES																														
WET DENSITY (lb./ft. ³)																														
RIGIDITY (cm)																														
MAXIMUM POROSITY (%)																														
MINIMUM POROSITY (%)																														
WATER CONTENT (%)																														
ORGANIC CARBON CONTENT (%)																														
SUBSAMPLE DRY WEIGHT (g)																														
SPECIFICITY (vol.)																														
PLASTICITY																														
SLOPE-TESTING-TERM Shell/Cm																														
DOMINANT MINERAL (%)																														
SECONDARY MINERAL (%)																														
OTHER MINERALS (%)																														
REMARKS																														
SEGMENT TYPE																														
SUTY CLAY																														
SUTY MUD																														
SUTY CLAY																														

1. SAMPLE NUMBER	66-214-1	CONTINUED	5. SAMPLER TYPE	
2. LOCATION			6. WATER DEPTH (m.)	
3. LONGITUDE			7. CORE LENGTH (m.)	
4. DATE (day, month, year)			8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3396	3397	3397.5	3398
10. SUBSAMPLE DEPTH IN CORE (m.)	40-41	41-42	43 1/2 - 44	44-45
11. COLOR	OLIVE GRAY (5 Y 4/1)	OLIVE GRAY (5 Y 4/1)	OLIVE GRAY (5 Y 4/1)	MEDIUM BLuish (5.8 6/1)
12. OTHER				
13. WET DENSITY (lb./ft. ³)				
14. RIGIDITY (cm)				
15. MAXIMUM POROSITY (%)				
16. MINIMUM POROSITY (%)				
17. WATER CONTENT (%)				
18. ORGANIC CARBON CONTENT (%)				
19. SIZE ANALYSIS AND STATISTICAL MEASURES				
a. -2 ₀ (%)	63 ₂	50 ₁ 184	50 ₁	50 ₂
b. -2 ₀ to -1 ₀ (%)	1	5 ₂ 1426	5 ₂	5 ₂
c. -1 ₀ to 0 ₁₀ (%)	1	6 ₂ 697	6 ₂ 764	6 ₂ 808
d. 0 ₁₀ to 1 ₀ (%)	1	0 ₁ 453	0 ₁ 606	0 ₁ 678
e. 1 ₀ to 2 ₀ (%)	1	0 ₂ 975	0 ₂	0 ₂
f. 2 ₀ to 3 ₀ (%)	3	1	TRACE	
g. 3 ₀ to 4 ₀ (%)	12		15	18
h. 4 ₀ to 5 ₀ (%)	21	23	34	35
i. 5 ₀ to 6 ₀ (%)	21	33	11	8
j. 6 ₀ to 7 ₀ (%)	32	32	10	42
20. SUBSAMPLE DRY WEIGHT (mg)	1664	2364	779	2772
21. SPECIFICITY (vol.)				
22. PLASTICITY	Low			4-7.6
23. SLOPE-TESTING-TERM Shell/Cm	0	0	0	0
24. DOMINANT MINERAL (%)				
25. SECONDARY MINERAL (%)				
26. OTHER MINERALS (%)				
27. REMARKS:	38-44" sandy silty clay, w/ hard clay at 41" (3399) silty layers (3396), hard clay layer 45-46" 44-1/8" blue, silty clay, w/ silty layers + black clay layering 3399-3400 are samples of silty clay			
SEGMENT TYPE	CLAYEY SILT	CLAYEY SILT	SILTY CLAY	SILTY CLAY

SAMPLE NUMBER 66214-1 CONTINUED					5. SAMPLER TYPE	
2. LATITUDE	5. WATER DEPTH (m.)	7. CORE LENGTH (m.)				
3. LONGITUDE	6. CORE PENETRATION (m.)					
4. DATE (day, month, year)						
9. LABORATORY NUMBERS	3399	3400	3401	3402		
10. SUBSAMPLING DEPTH IN CORE (m.)	51-52 1/2	56 1/2	58-59	112-113		
11. COLOR	OLIVE GRAY (5Y 4/1)	OLIVE GRAY (5Y 4/1)	MEDIUM BLuish GRAY (5B 5/1)	MEDIUM BLuish GRAY (5B 5/1)		
12. ODR						
13. MET DENSITY (lb./ft. ³)						
14. RESISTANCE (mm)						
15. MAXIMUM POROSITY (%)						
16. MINIMUM POROSITY (%)						
17. WATER CONTENT (%)						
18. ORGANIC CARBON CONTENT (%)						
19. SIZE ANALYSIS AND STATISTICAL MEASURES						
a. < 2 _s (%)	10 _s	10 _s	10 _s	10 _s		
b. -2 _s to -1 _s (%)	38 _s	38 _s	38 _s	38 _s		
c. -1 _s to 0 _s (%)	Me _s 755	Me _s 720	Me _s 806	Me _s 793		
d. 0 _s to 1 _s (%)	01 _s 542	01 _s 477	01 _s 646	01 _s 608		
e. 1 _s to 2 _s (%)	03 _s	1	03 _s	03 _s		
f. 2 _s to 3 _s (%)	2	2	1	1		
g. 3 _s to 4 _s (%)	7	10	1	1		
h. 4 _s to 5 _s (%)	22	23	18	22		
i. 5 _s to 6 _s (%)	22	20	30	27		
j. 6 _s to 7 _s (%)	9	7	11	11		
k. 7 _s to 8 _s (%)	37	34	36	36		
20. SUBSAMPLING DRY WEIGHT (mg)	1237	1491	2360	3189		
21. SPECIFIC (D ₅₀)						
22. PLASTICITY (D ₅₀)	Low	Low	High	High		
23. SHRECK-TESTING (mm) Shell/Gm.	0	0	0	0		
24. DOMINANT MINERAL (%)						
25. SECONDARY MINERAL (%)						
26. OTHER MINERALS (%)						
27. REMARKS:	at 51-52 1/2 to 56 1/2 * sample of black layer.					
SEDIMENT TYPE	SHY CLAY	CLAYEY SILT	SILTY CLAY	SILTY CLAY		

1. SAMPLE NUMBER 66214-1 CONTINUED					5. SAMPLER TYPE
2. LATITUDE		5. WATER DEPTH (m.)		7. CORE LENGTH (m.)	
3. LONGITUDE		6. CORE PENETRATION (m.)		8. CORE PENETRATION (m.)	
4. DATE (day, month, year)					
9. LABORATORY NUMBERS		3403	3404	3405	3406
10. SUSPENSE DEPTH IN CORE (m.)		106	113	115	118
11. COLOR		MEDIUM BLUSH GRAY (5.0 5/1)	BLACK (N 1)	MEDIUM BLUSH GRAY (5B 5/1)	MEDIUM BLUSH GRAY (5B 5/1)
12. ODR					
13. MET DENSITY (lb./ft. ³)					
14. RESISTANCE (mm)					
15. MAXIMUM POROSITY (%)					
16. MAXIMUM POROSITY (%)					
17. WATER CONTENT (%)					
18. ORGANIC CARBON CONTENT (%)					
19. SIZE ANALYSIS AND STATISTICAL MEASURES					
a. < -2 _s (%)	10 _s	10 _s	10 _s	10 _s	10 _s
b. -2 _s to -1 _s (%)	38 _s	38 _s	38 _s	38 _s	38 _s
c. -1 _s to 0 _s (%)	Me _s 780	Me _s 683	Me _s 773	Me _s 780	
d. 0 _s to 1 _s (%)	01 _s 570	01 _s 518	01 _s 591	01 _s 600	
e. 1 _s to 2 _s (%)	03 _s	1	03 _s	03 _s	
f. 2 _s to 3 _s (%)	2	3	3	3	
g. 3 _s to 4 _s (%)	4	4	4	4	
h. 4 _s to 5 _s (%)	27	35	23	23	
i. 5 _s to 6 _s (%)	21	23	28	28	
j. 6 _s to 7 _s (%)	39	30	36	36	
k. 7 _s to 8 _s (%)	3233	2246	2909	1953	
20. SUSPENSE DRY WEIGHT (mg)					
21. SPECIFIC (D ₅₀)					
22. PLASTICITY (D ₅₀)					
23. SHRECK-TESTING (mm) Shell/Gm.					
24. DOMINANT MINERAL (%)					
25. SECONDARY MINERAL (%)					
26. OTHER MINERALS (%)					
27. REMARKS:					
SEDIMENT TYPE		CLAYEY SILT		CLAYEY SILT	
CLAYEY SILT		CLAYEY SILT		CLAYEY SILT	

SEDIMENT TYPE	SILTY CLAY	CLAYEY SILT	SILTY CLAY	SILTY CLAY
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SEDIMENT TYPE	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT
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[illegible]

ITEMS 11-26 DETERMINED IN THE LAB.
Color changes at 34", 39" + 119"

SEDIMENT TYPE	SILTY CLAY	SILTY CLAY	SILTY CLAY	SILTY CLAY

1. SAMPLE NUMBER	2. LATITUDE	3. LONGITUDE	4. DATE (Day, month, year)	5. SIMPLER TYPE
66-215-1				
6. WATER DEPTH (m.)	7. CORE LENGTH (m.)	8. CORE PENETRATION (m.)	9. LABORATORY NUMBERS	10. SUBMERGE DEPTH IN CORE (m.)
			3390	3391
11. COLOR	12. DOOR	13. WET DENSITY (1b, 111 ²)	14. RIGIDNESS (4a)	15. MAXIMUM PROSISTY (5)
16. MINIMUM PROSISTY (5)	17. WATER CONTENT (5)	18. ORGANIC CARBON CONTENT (5)	19. SIZE ANALYSIS AND STATISTICAL MEASURES	20. SUBMERGE DRY WEIGHT (m)
21. SPECIFICITY (4a, 1)	22. ORGANIC CARBON ϕ_{org}	23. SHALL ϕ_{sh}	24. SHALL ϕ_{sh}	25. SECONDARY MINERALS (5)
26. OTHER MINERALS (5)	27. REMARKS:			

SEDIMENT TYPE			
	SILTY CLAY	SILTY CLAY	SILTY CLAY

1. SAMPLE NUMBER	66-216-1	5. SAMPLER TYPE	Kullenberg
2. LATITUDE	44° 14' N	6. WATER DEPTH (m.)	33.3
3. LONGITUDE	00° 48' W	7. CORE LENGTH (m.)	117
4. DATE (day, month, year)	8 October 1959	8. CORE PENETRATION (m.)	132
9. LABORATORY NUMBERS	3729	9. LABORATORY NUMBERS	3730
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2	10. SUBSAMPLE DEPTH IN CORE (m.)	3731
11. COLOR	Dark Gray (5 Y 3/2)	11. COLOR	Dark Yellowish Brown (10 YR 4/2)
12. ODR		12. ODR	3732
13. MET DENSITY (lb./ft. ³)		13. MET DENSITY (lb./ft. ³)	71-72
14. RIGIDITY (mm)		14. RIGIDITY (mm)	46-48
15. MAXIMUM POROSITY (%)		15. MAXIMUM POROSITY (%)	Dark Yellowish Brown (10 YR 4/2)
16. MINIMUM POROSITY (%)		16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL VALUES		19. SIZE ANALYSIS AND STATISTICAL VALUES	
a. -2 ₅ (%)		a. -2 ₅ (%)	
b. -2 ₅ to -1 ₂ (%)		b. -2 ₅ to -1 ₂ (%)	
c. -1 ₂ to 0 ₁ (%)		c. -1 ₂ to 0 ₁ (%)	
d. 0 ₁ to 1 ₂ (%)		d. 0 ₁ to 1 ₂ (%)	
e. 1 ₂ to 2 ₅ (%)		e. 1 ₂ to 2 ₅ (%)	
f. 2 ₅ to 3 ₅ (%)		f. 2 ₅ to 3 ₅ (%)	
g. 3 ₅ to 4 ₅ (%)		g. 3 ₅ to 4 ₅ (%)	
h. 4 ₅ to 6 ₅ (%)		h. 4 ₅ to 6 ₅ (%)	
i. 6 ₅ to 9 ₅ (%)		i. 6 ₅ to 9 ₅ (%)	
j. 9 ₅ (%)		j. 9 ₅ (%)	
20. SUBSAMPLE DRY WEIGHT (gm)	1730	20. SUBSAMPLE DRY WEIGHT (gm)	2359
21. SPECIFICITY (mg.)		21. SPECIFICITY (mg.)	
22. MINIMUM PLASTICITY	High	22. MINIMUM PLASTICITY	High
23. SHELL CONTENT (%)	1/2	23. SHELL CONTENT (%)	0
24. DOMINANT MINERAL (%)		24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)		25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)		26. OTHER MINERALS (%)	
27. REMARKS:	TIPS 11-20 DETERMINED IN THE LAB scattered shell and worm burrows throughout. Color change at 17".		
SEDIMENT TYPE	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT

1. SAMPLE NUMBER	66-216-1	5. SAMPLER TYPE	
2. LATITUDE		6. WATER DEPTH (m.)	
3. LONGITUDE		7. CORE LENGTH (m.)	
4. DATE (day, month, year)		8. CORE PENETRATION (m.)	
9. LABORATORY NUMBERS	3733	9. LABORATORY NUMBERS	3734
10. SUBSAMPLE DEPTH IN CORE (m.)	0-2	10. SUBSAMPLE DEPTH IN CORE (m.)	15-17
11. COLOR	Dark Yellowish Brown (10 YR 4/2)	11. COLOR	Dark Yellowish Brown (10 YR 4/2)
12. ODR		12. ODR	
13. MET DENSITY (lb./ft. ³)		13. MET DENSITY (lb./ft. ³)	
14. RIGIDITY (mm)		14. RIGIDITY (mm)	
15. MAXIMUM POROSITY (%)		15. MAXIMUM POROSITY (%)	
16. MINIMUM POROSITY (%)		16. MINIMUM POROSITY (%)	
17. WATER CONTENT (%)		17. WATER CONTENT (%)	
18. ORGANIC CARBON CONTENT (%)		18. ORGANIC CARBON CONTENT (%)	
19. SIZE ANALYSIS AND STATISTICAL VALUES		19. SIZE ANALYSIS AND STATISTICAL VALUES	
a. -2 ₅ (%)		a. -2 ₅ (%)	
b. -2 ₅ to -1 ₂ (%)		b. -2 ₅ to -1 ₂ (%)	
c. -1 ₂ to 0 ₁ (%)		c. -1 ₂ to 0 ₁ (%)	
d. 0 ₁ to 1 ₂ (%)		d. 0 ₁ to 1 ₂ (%)	
e. 1 ₂ to 2 ₅ (%)		e. 1 ₂ to 2 ₅ (%)	
f. 2 ₅ to 3 ₅ (%)		f. 2 ₅ to 3 ₅ (%)	
g. 3 ₅ to 4 ₅ (%)		g. 3 ₅ to 4 ₅ (%)	
h. 4 ₅ to 6 ₅ (%)		h. 4 ₅ to 6 ₅ (%)	
i. 6 ₅ to 9 ₅ (%)		i. 6 ₅ to 9 ₅ (%)	
j. 9 ₅ (%)		j. 9 ₅ (%)	
20. SUBSAMPLE DRY WEIGHT (gm)	25.15	20. SUBSAMPLE DRY WEIGHT (gm)	26.71
21. SPECIFICITY (mg.)		21. SPECIFICITY (mg.)	
22. MINIMUM PLASTICITY	High	22. MINIMUM PLASTICITY	High
23. SHELL CONTENT (%)	0	23. SHELL CONTENT (%)	0
24. DOMINANT MINERAL (%)		24. DOMINANT MINERAL (%)	
25. SECONDARY MINERAL (%)		25. SECONDARY MINERAL (%)	
26. OTHER MINERALS (%)		26. OTHER MINERALS (%)	
27. REMARKS:		27. REMARKS:	
SEDIMENT TYPE	CLAYEY SILT	SEDIMENT TYPE	SILT CLAY

1. SAMPLE NUMBER	66-217-1 KILLENBERG			
2. LATITUDE	44° 12' 35" N	3. LONGITUDE	68° 58' 43" W	4. DATE (YY, MONTH, DAY)
5. WATER DEPTH (m.)	26.2	6. CORE LENGTH (m.)	125	7. CORE PENETRATION (m.)
8. LABORATORY NUMBERS	3667 *	9. SUBSAMPLE DEPTH IN CORE (m.)	0-2	10. SUBSAMPLE DEPTH IN CORE (m.)
11. COLOR	BLUE GRAY (5Y 4/1)	12. DOOR	24-26	13. NET DENSITY (lb./ft. ³)
14. RIGIDITY (cm)	3668	15. MEANING PROBABILITY (%)	50-52	16. MEANING PROBABILITY (%)
17. WATER CONTENT (%)	87-89	18. ORGANIC CARBON CONTENT (%)	BLUE GRAY (5Y 4/1)	19. OTHER MINERALS (%)
20. SUBSAMPLE DRY WEIGHT (gm)	1934	21. SPECIFICITY (avg.)	High	22. DOMINANT MINERAL (%)
23. SECONDARY MINERAL (%)	0	24. OTHER MINERALS (%)	0	25. REMARKS:

ITEMS 11-26 DETERMINED IN THE LAB.

* THE SAMPLE CONTAINED NUMEROUS DARK STREAKS
Core appears uniform.

SEDIMENT TYPE	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT
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1. SAMPLE NUMBER	66-217-1 - CONTINUED			
2. LATITUDE		3. LONGITUDE		4. DATE (YY, MONTH, DAY)
5. WATER DEPTH (m.)		6. CORE LENGTH (m.)		7. CORE PENETRATION (m.)
8. LABORATORY NUMBERS	3671 *	9. SUBSAMPLE DEPTH IN CORE (m.)	123-125	10. SUBSAMPLE DEPTH IN CORE (m.)
11. COLOR	BLUE GRAY (5Y 4/1)	12. DOOR		13. NET DENSITY (lb./ft. ³)
14. RIGIDITY (cm)		15. MEANING PROBABILITY (%)		16. MEANING PROBABILITY (%)
17. WATER CONTENT (%)		18. ORGANIC CARBON CONTENT (%)		19. OTHER MINERALS (%)
20. SUBSAMPLE DRY WEIGHT (gm)		21. SPECIFICITY (avg.)		22. DOMINANT MINERAL (%)
23. SECONDARY MINERAL (%)		24. OTHER MINERALS (%)		25. REMARKS:

ITEMS 11-26 DETERMINED IN THE LAB.

* THE SAMPLE CONTAINED NUMEROUS DARK STREAKS
Core appears uniform.

SEDIMENT TYPE	CLAYEY SILT	CLAYEY SILT	CLAYEY SILT
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Appendix contains a tabulated list of bottom sediment samples collected and bottom sediment analysis sheets for 168 bottom sediments.

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2. Sonoprobe Records - Penobscot Bay, Maine
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4. Maine, Penobscot Bay
5. Ships - USS LITTLEHALES

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